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L1 23 SEA FILE=HCAPLUS ABB=ON RIZZIERI D?/AU
L2 272 SEA FILE=HCAPLUS ABB=ON BIGNER D?/AU
L3 200 SEA FILE=HCAPLUS ABB=ON ZALUTSKY M?/AU
L63 186 SEA L1
L64 1323 SEA L2
L65 647 SEA L3

SEA L63 AND L64 AND L65

es dup rem 128,14,144,189

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FILE COVERS 1907 - 21 Mar 2005 VOL 142 ISS 13 FILE LAST UPDATED: 20 Mar 2005 (20050320/ED)

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inventor

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L1 23 SEA FILE=HCAPLUS ABB=ON RIZZIERI D?/AU
L2 272 SEA FILE=HCAPLUS ABB=ON BIGNER D?/AU
L3 200 SEA FILE=HCAPLUS ABB=ON ZALUTSKY M?/AU
L4 2 SEA FILE=HCAPLUS ABB=ON L1 AND L2 AND L3
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FILE MEDLINE' ENTERED AT 16:17:53 ON 21 MAR 2005

FILE 'CANCERLIT' ENTERED AT 16:17:53 ON 21 MAR 2005

L1	23	SEA	FILE=HCAPLUS ABB=ON RIZZIERI D	UA\?C
L2	272	SEA	FILE=HCAPLUS ABB=ON BIGNER D?/	'AU
L3	200	SEA	FILE=HCAPLUS ABB=ON ZALUTSKY M	1?/AU
L25	63	SEA	L1	
L26	832	SEA	L2	
L27	323	SEA	L3	
L28	1	SEA	L25 AND L26 AND L27	

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L41	40	SEA	FILE=EMBASE	ABB=ON	RIZZIERI D?/AU
L42	367	SEA	FILE=EMBASE	ABB=ON	BIGNER D?/AU
L43	179	SEA	FILE=EMBASE	ABB=ON	ZALUTSKY M?/AU

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PROCESSING COMPLETED FOR L28
PROCESSING COMPLETED FOR L4
PROCESSING COMPLETED FOR L44
PROCESSING COMPLETED FOR L83

L88 5 DUP REM L28 L4 L44 L83 (8 DUPLICATES REMOVED)

ANSWER '1' FROM FILE MEDLINE ANSWER '2' FROM FILE HCAPLUS ANSWERS '3-5' FROM FILE BIOSIS

=> d iall 1; d ibib ed abs hitind 2; d iall 3-5

L88 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 1

ACCESSION NUMBER: 2004362017 MEDLINE DOCUMENT NUMBER: PubMed ID: 15100153

TITLE: Phase 1 trial study of 131I-labeled chimeric 81C6

monoclonal antibody for the treatment of patients with

non-Hodgkin lymphoma.

AUTHOR: Rizzieri David A; Akabani Gamal; Zalutsky

Michael R; Coleman R Edward; Metzler Scott D; Bowsher James E; Toaso Bonnie; Anderson Elizabeth; Lagoo Anand; Clayton Steve; Pegram Charles N; Moore Joseph O; Gockerman Jon P; DeCastro Carlos; Gasparetto Cristina; Chao Nelson J;

Bigner Darell D

CORPORATE SOURCE: Department of Medicine, Duke University Medical Center,

Durham, NC 27710, USA.. rizzi003@mc.duke.edu

CONTRACT NUMBER: CA11898 (NCI)

CA70164 (NCI)

S10RR15697.7 (NCRR)

SOURCE: Blood, (2004 Aug 1) 104 (3) 642-8. Electronic Publication:

2004-04-20.

Journal code: 7603509. ISSN: 0006-4971.

PUB. COUNTRY: DOCUMENT TYPE:

United States (CLINICAL TRIAL)

(CLINICAL TRIAL)
(CLINICAL TRIAL, PHASE I)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 200408

ENTRY DATE: Entered STN: 20040722

Last Updated on STN: 20040831

Entered Medline: 20040830

ABSTRACT:

We report a phase 1 study of pharmacokinetics, dosimetry, toxicity, and response of (131)I anti-tenascin chimeric 81C6 for the treatment of lymphoma. Nine patients received a dosimetric dose of 370 MBq (10 mCi). Three patients received an administered activity of 1480 MBq (40 mCi), and 2 developed hematologic toxicity that required stem cell infusion. Six patients received an administered activity of 1110 MBq (30 mCi), and 2 developed toxicity that required stem cell infusion. The clearance of whole-body activity was monoexponential with a mean effective half-life of 110 hours (range, 90-136 hours) and a mean effective whole-body residence time of 159 hours (range, 130-196 hours). There was rapid uptake within the viscera; however, tumor

Harris 10/008062 Page 4

uptake was slower. Activity in normal viscera decreased proportional to the whole body; however, tumor sites presented a slow clearance (T(1/2), 86-191 hours). The mean absorbed dose to whole-body was 67 cGy (range, 51-89 hours), whereas the dose to tumor sites was 963 cGy (range, 363-1517 cGy). Despite lack of a "blocking" antibody, 1 of 9 patients attained a complete remission and 1 a partial remission. These data demonstrate this radiopharmaceutical to be an encouraging agent for the treatment of lymphoma particularly if methods to protect the normal viscera are developed.

CONTROLLED TERM: Check Tags: Female; Male

Animals

Antibodies, Monoclonal: PK, pharmacokinetics

*Antibodies, Monoclonal: TO, toxicity

Biological Transport

Biopsy

Bone Marrow: PA, pathology

Humans

Immunotoxins: PK, pharmacokinetics

Immunotoxins: TO, toxicity

Iodine Radioisotopes: PK, pharmacokinetics

*Iodine Radioisotopes: TO, toxicity

Lymph Nodes: PA, pathology

Lymphoma, Non-Hodgkin: PA, pathology *Lymphoma, Non-Hodgkin: RT, radiotherapy

Mice

Patient Selection

Research Support, Non-U.S. Gov't Research Support, U.S. Gov't, P.H.S.

Tenascin: AN, analysis Tissue Distribution

Tomography, X-Ray Computed

CHEMICAL NAME: 0 (Antibodies, Monoclonal); 0 (Immunotoxins); 0 (Iodine

Radioisotopes); 0 (Tenascin)

L88 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2002:504652 HCAPLUS

DOCUMENT NUMBER: 137:59618

TITLE: Anti-tenascin monoclonal antibody therapy for lymphoma

INVENTOR(S): Rizzieri, David; Bigner, Darell D.

; Zalutsky, Michael

PATENT ASSIGNEE(S): Duke University, USA SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT N	o.			KIN	D 1	DATE		1	APPL	ICAT:	ION I	NO.		D	ATE	
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WO 20020	5144	8		A1	:	2002	0704	Į	WO 2	001-1	US46	104		20	0011	024
W:	AE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
	CO, (CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
	GM,	HR,	HU,	ID,	ΙL,	IN,	ıs,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PH,	PL,
	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,
	US, 1	UΖ,	VN,	YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM	
RW:	GH, (GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZW,	ΑT,	BE,	CH,	CY,
	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG	

PRIORITY APPLN. INFO.: US 2000-257108P P 20001221 WO 2001-US46104 W 20011024

ED Entered STN: 05 Jul 2002

AB A method of treating lymphoma in a subject comprises administering to a subject afflicted with lymphoma an antibody that binds to tenascin in a therapeutically effective amount Preferably the antibody is monoclonal antibody 81C6 or an antibody that binds to the epitope bound by monoclonal antibody 81C6. Preferably the antibody is labeled with or conjugated to a chemotherapeutic agent, particularly a radioisotope such as 131I.

IC ICM A61K051-10

AUTHOR (S):

ICS A61K039-395; C07K016-28; C07K016-30

CC 8-7 (Radiation Biochemistry)

Section cross-reference(s): 1, 15

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 3 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2004:152011 BIOSIS DOCUMENT NUMBER: PREV200400147666

TITLE: Phase I trial with pharmocokinetics, dosimetry, toxicity

and response of anti-stromal therapy using 131I labeled

chimeric anti-tenascin therapy for lymphoma.
Rizzieri, David A. [Reprint Author]; Akabani,
Gamal; Zalutsky, Michael; Coleman, R. Edward;

Toaso, Bonnie [Reprint Author]; Anderson, Elizabeth

[Reprint Author]; Lagoo, Anand; Clayton, Steve;

Niedzwiecki, Donna; Moore, Joseph O. [Reprint Author]; Gockerman, Jon P. [Reprint Author]; DeCastro, Carlos [Reprint Author]; Chao, Nelson J. [Reprint Author]; Gasparetto, Cristina [Reprint Author]; Bigner, Darell

D.

CORPORATE SOURCE: Dept. of Medicine, Duke University Medical Center, Durham,

NC, USA

SOURCE: Blood, (November 16 2003) Vol. 102, No. 11, pp. 635a-636a.

print.

Meeting Info.: 45th Annual Meeting of the American Society of Hematology. San Diego, CA, USA. December 06-09, 2003.

American Society of Hematology. CODEN: BLOOAW. ISSN: 0006-4971.

DOCUMENT TYPE: Conference; (Meeting)

Conference; (Meeting Poster)

Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 17 Mar 2004

Last Updated on STN: 17 Mar 2004

ABSTRACT:Background: We and others have shown the importance of stromal changes such as microvasculature and extracellualr matrix protein expression in the progression of lymphoma. Tenascin is one of the stromal proteins that is overexpressed in lymphomatous tissue compared to normal visceral sites. Further, unlike other targets for available radiolabeled antibodies, tenascin expression is increased with aggressiveness and grade of disease (Rizzieri et al., Blood (Suppl 1) 94:4339, 1999). We present the results of a phase I study of stromally directed therapy using a human-mouse chimeric antibody to tenascin that is labeled with 131I and given intravenously to patients with lymphoma. Methods: Patients are given an initial dose (10mCi 131I on 10mg of antibody) to

obtain dosimetry and pharmacokinetic data during the subsequent week. The therapeutic dose (30-40mCi on 10mg of tenascin antibody) is delivered 1-2 weeks later and patients followed for toxicity and response. This first phase I trial does not include a 'cold' antibody to block nonspecific binding. Results: Toxicity was limited to dose limiting neutropenia or thrombocytopenia with a maximum dose of 30mCi for the therapy dose. Dosimetry revealed a 4-5:1 ratio of tumor to normal tissue concentration of radiolabel, despite this first phase I study not having a 'blocking antibody' for non-specific binding. Pharmacokinetic studies revealed prolonged exposure to the radiolabeled antibody with a range of 100-169 hours. One can note rapid uptake in the marrow and liver, with a slower, yet more pronounced uptake in the tumor bed. The radiolabeled antibody has a prolonged halflife, mirroring the breakdown of the radiolablel, indicating that it is not re-circulated and excreted. Conclusion: Anti-stromal therapy using a chimeric, monoclonal radiolabeled antibody to tenascin is an encouraging method of targeting lymphoma. Future trials will focus on decreasing nonspecific binding and escalating the dose absorbed by the tumor.

CONCEPT CODE: General biology - Symposia, transactions and proceedings

00520

Pathology - Diagnostic 12504 Pathology - Therapy 12512

Digestive system - Physiology and biochemistry 14004

Blood - Blood and lymph studies 15002

Blood - Blood cell studies 15004

Blood - Blood, lymphatic and reticuloendothelial

pathologies 15006

Pharmacology - General 22002

Pharmacology - Clinical pharmacology 22005 Toxicology - General and methods 22501

Toxicology - Pharmacology 22504

Neoplasms - Diagnostic methods 24001

Neoplasms - Immunology 24003

Neoplasms - Pathology, clinical aspects and systemic

effects 24004

Neoplasms - Blood and reticuloendothelial neoplasms 24010

Immunology - General and methods 34502

Immunology - Immunopathology, tissue immunology 34508

INDEX TERMS: Major Concepts

Clinical Immunology (Human Medicine, Medical Sciences); Hematology (Human Medicine, Medical Sciences); Oncology

(Human Medicine, Medical Sciences); Pharmacology

INDEX TERMS: Parts, Structures, & Systems of Organisms

bone marrow: blood and lymphatics, immune system; liver:

digestive system

INDEX TERMS: Diseases

lymphoma: blood and lymphatic disease, immune system disease, neoplastic disease, diagnosis, drug therapy

Lymphoma (MeSH)

INDEX TERMS: Diseases

neutropenia: blood and lymphatic disease, toxicity,

drug-induced

Neutropenia (MeSH)

INDEX TERMS: Diseases

thrombocytopenia: blood and lymphatic disease, toxicity,

drug-induced

Thrombocytopenia (MeSH)

INDEX TERMS: Diseases

toxicity: toxicity

INDEX TERMS: Chemicals & Biochemicals

iodine 131; tenascin: toxicity

INDEX TERMS: Methods & Equipment

Iodine 131 labeled chimeric anti-tenascin therapy:

clinical techniques, therapeutic and prophylactic techniques; anti-stromal therapy: clinical techniques, therapeutic and prophylactic techniques; dosimetry:

laboratory techniques

INDEX TERMS: Miscellaneous Descriptors

pharmacokinetics, dosimetry, toxicity and response of

anti-stromal therapy; phase I trial

ORGANISM: Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Organism Name

human (common): patient

Taxa Notes

Animals, Chordates, Humans, Mammals, Primates,

Vertebrates

REGISTRY NUMBER: 10043-66-0 (iodine 131)

L88 ANSWER 4 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:474119 BIOSIS DOCUMENT NUMBER: PREV200200474119

TITLE: Radioimmunotherapy of refractory non-Hodgkin's lymphoma

with 131I-labeled chimeric 81C6 anti-tenascin monoclonal

antibody: Dosimetry study.

AUTHOR(S): Akabani, G. [Reprint author]; Rizzieri, D.

[Reprint author]; Coleman, R. E. [Reprint author]; Metzler,

S. D. [Reprint author]; Zalutsky, M. R. [Reprint

author]; Bigner, D. D. [Reprint author]

CORPORATE SOURCE: Duke University Medical Center, Durham, NC, USA

SOURCE:

Journal of Nuclear Medicine, (May, 2002) Vol. 43, No. 5

Supplement, pp. 313P. print.

Meeting Info.: 49th Annual Meeting of the Society of Nuclear Medicine. Los Angeles, CA, USA. June 15-19, 2002.

CODEN: JNMEAQ. ISSN: 0161-5505.

DOCUMENT TYPE: Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

Conference; (Meeting Poster)

LANGUAGE: English

ENTRY DATE: Entered STN: 11 Sep 2002

Last Updated on STN: 11 Sep 2002

CONCEPT CODE: General biology - Symposia, transactions and proceedings

00520

Radiation biology - Radiation and isotope techniques

06504

Biochemistry studies - Proteins, peptides and amino acids

10064

Pathology - Therapy 12512

Blood - Blood, lymphatic and reticuloendothelial

pathologies 15006

Pharmacology - General 22002

Pharmacology - Drug metabolism and metabolic stimulators

22003

Pharmacology - Clinical pharmacology 22005

Neoplasms - Pathology, clinical aspects and systemic

effects 24004

Neoplasms - Therapeutic agents and therapy 24008

Neoplasms - Blood and reticuloendothelial neoplasms 24010

Immunology - Immunopathology, tissue immunology 34508

INDEX TERMS: Major Concepts

Hematology (Human Medicine, Medical Sciences); Oncology

(Human Medicine, Medical Sciences); Pharmacology;

Radiology (Medical Sciences)

Harris 10/008062 Page 8

INDEX TERMS: Diseases

non-Hodgkin's lymphoma: blood and lymphatic disease,

immune system disease, neoplastic disease

Lymphoma, Non-Hodgkin (MeSH)

Chemicals & Biochemicals INDEX TERMS:

> 81C6 anti-tenascin monoclonal antibody: dosimetry, iodine-131 labeled, pharmacokinetics; tenascin:

glycoprotein

INDEX TERMS: Methods & Equipment

radioimmunotherapy: immunologic method, radiologic

method, therapeutic method

Miscellaneous Descriptors INDEX TERMS:

Meeting Abstract; Meeting Poster

Classifier ORGANISM:

> Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Organism Name human: patient

Taxa Notes

Animals, Chordates, Humans, Mammals, Primates,

Vertebrates

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ACCESSION NUMBER: 2002:152427 BIOSIS DOCUMENT NUMBER: PREV200200152427

TITLE: Radiolabeled anti-tenascin antibody for refractory

non-Hodgkins lymphoma (NHL).

Rizzieri, David A. [Reprint author]; Akabani, AUTHOR (S):

Gamal; Coleman, R. Edward; Zalutsky, Michael R.;

Niedzwiecki, Donna [Reprint author]; Payne, Nancy [Reprint

author]; Wikstrand, Carol; Bigner, Darell D.

CORPORATE SOURCE: Division of Oncology and Stem Cell Transplantation, Duke

University Medical Center, Durham, NC, USA

SOURCE: Blood, (November 16, 2001) Vol. 98, No. 11 Part 2, pp.

247b. print.

Meeting Info.: 43rd Annual Meeting of the American Society of Hematology, Part 2. Orlando, Florida, USA. December

07-11, 2001. American Society of Hematology.

CODEN: BLOOAW. ISSN: 0006-4971.

Conference; (Meeting) DOCUMENT TYPE:

Conference; Abstract; (Meeting Abstract)

English LANGUAGE:

ENTRY DATE: Entered STN: 21 Feb 2002

Last Updated on STN: 26 Feb 2002

ABSTRACT: Tenascin (TN), an extracellular matrix glycoprotein that is significantly over-expressed in multiple tumor types, including breast cancer, lung cancer, GI tumors, brain tumors, and lymphomas. Interestingly, TN over-expression in tumorous tissue increases with more aggressive grades of lymphoma. Further, within the same patient, over-expression is limited to the tumor site. These data suggest the stroma of the tumor may be an attractive target for therapy. We have created a humanized murine antibody to tenascin and radiolabeled it with I-131. Patients with relapsed or refractory NHL who are not candidates for high dose therapy, have not been previously radiated to tissue tolerance, do not have >25% marrow involvement with disease, have normal blood counts and adequate liver/renal function were eligible. We have treated 2 patients to date. The first had refractory well differentiated lymphoma following 3 different chemotherapy and rituximab regimens without any significant response. The second patient had diffuse large cell lymphoma refractory to 3 standard regimens of chemotherapy. For dosimetry, 10 mg of antibody was labeled with 10 mCi of I-131 and infused as a bolus. Following a week of daily gamma camera imaging and pharmacokinetic analyses, pts were

treated with a therapeutic dose of 40 mCi I-131 conjugated to 10 mg of anti-tenascin antibody. No cold blocking antibody was given prior to labeled dose in this phase I trial. The whole-body, visceral organ, and tumor dosimetry are given. The whole-body effective half life and residence time in patient 1 was 116 hours and 167 hours respectively and for patient 2 was 109 hours and 158 hours, respectively. Even without a cold dose for blocking of non-specific uptake, the tumor still concentrates the radiolabeled antibody at a ratio of 5X over visceral organs. Each patient noted 1 night sweat and mild diarrhea the night of therapy, and low grade fever persisting for a few days. Both patients experienced transient myelosuppression occurring between weeks 4-6 from therapy. With early follow up of 1-3 months, both have responded with decreased tumor size, though the maximum response is not yet determined. The above dosimetry estimates and prolonged residency time are very encouraging. The increased TN expression in more aggressive lymphomas and many other tumors such as breast cancer, lung cancer, and gastrointestinal malignancies suggests this targeted radiotherapy may have broad applicability. These results, as well as the clinical outcomes for the patients, support further evaluation of anti-stromal targeted therapy with radiolabeled, anti-tenascin antibody. CONCEPT CODE: General biology - Symposia, transactions and proceedings

Radiation biology - Radiation and isotope techniques

06504

Pathology - Therapy 12512

Digestive system - Physiology and biochemistry 14004

Digestive system - Pathology 14006

Blood - Blood and lymph studies

Blood - Blood cell studies 15004

Blood - Blood, lymphatic and reticuloendothelial

pathologies 15006

Respiratory system - Physiology and biochemistry 16004

Respiratory system - Pathology 16006

Reproductive system - Physiology and biochemistry 16504

Reproductive system - Pathology 16506

Pharmacology - General 22002

Pharmacology - Clinical pharmacology 22005

Neoplasms - Immunology 24003

Neoplasms - Pathology, clinical aspects and systemic

effects 24004

Neoplasms - Therapeutic agents and therapy 24008

Neoplasms - Blood and reticuloendothelial neoplasms 24010

Immunology - General and methods 34502

Immunology - Immunopathology, tissue immunology

INDEX TERMS: Major Concepts

> Clinical Immunology (Human Medicine, Medical Sciences); Hematology (Human Medicine, Medical Sciences); Oncology

(Human Medicine, Medical Sciences); Pharmacology;

Radiology (Medical Sciences)

INDEX TERMS: Parts, Structures, & Systems of Organisms

blood: blood and lymphatics, digestive system; bone marrow: blood and lymphatics, immune system; breast: reproductive system; liver: digestive system; lung:

respiratory system

INDEX TERMS: Diseases

breast cancer: neoplastic disease, reproductive system

disease/female

Breast Neoplasms (MeSH)

INDEX TERMS: Diseases

diffuse large cell lymphoma: blood and lymphatic

disease, immune system disease, neoplastic disease,

therapy

Lymphoma, Large-Cell, Diffuse (MeSH)

INDEX TERMS: Diseases gastrointestinal malignancy: digestive system disease,

neoplastic disease

INDEX TERMS: Diseases

lung cancer: neoplastic disease, respiratory system

disease

Lung Neoplasms (MeSH)

INDEX TERMS: Diseases

refractory non-Hodgkin's lymphoma: blood and lymphatic

disease, immune system disease, neoplastic disease,

therapy, refractory NHL Lymphoma, Non-Hodgkin (MeSH)

INDEX TERMS: Chemicals & Biochemicals

cold blocking antibody; iodine-131; radiolabeled

anti-tenascin antibody: antineoplastic-drug; rituximab:

antineoplastic-drug; tenascin [TN]: expression

INDEX TERMS: Methods & Equipment

chemotherapy: therapeutic method; dosimetry: analytical

method; pharmacokinetic analysis: analytical method;

targeted radiotherapy: therapeutic method

INDEX TERMS: Miscellaneous Descriptors

adequate liver function; adequate renal function; tissue

tolerance radiation; transient myelosuppression; Meeting

Abstract

ORGANISM: Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Organism Name human: patient

Taxa Notes

Animals, Chordates, Humans, Mammals, Primates,

Vertebrates

REGISTRY NUMBER: 10043-66-0 (iodine-131)

174722-31-7 (rituximab)

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FILE COVERS 1907 - 21 Mar 2005 VOL 142 ISS 13 FILE LAST UPDATED: 20 Mar 2005 (20050320/ED)

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L5	19252 \$	SEA	FILE=HCAPLUS	ABB=ON	LYMPHOMA+OLD, NT/CT
L10	1386 \$	SEA	FILE=HCAPLUS	ABB=ON	IMMUNORADIOTHERAPY+OLD/CT
L12	1707 8	SEA	FILE=HCAPLUS	ABB=ON	(TENASCIN# OR BRACHONECTIN# OR
	(CYTO	TACTIN# OR H	EXABRACH	ION#)/OBI
5 L13	6 5	SEA	FILE=HCAPLUS	ABB=ON	L5_AND-L10-AND-L12/
					•
L5	19252	SEA	FILE=HCAPLUS	ABB=ON	LYMPHOMA+OLD, NT/CT
L6	222803	SEA	FILE=HCAPLUS	ABB=ON	ANTIBOD?/OBI
L7	102765	SEA	FILE=HCAPLUS	ABB=ON	LABEL?/OBI
L8	6646	SEA	FILE=HCAPLUS	ABB=ON	RADIOLABEL?/OBI
L9	12055	SEA	FILE=HCAPLUS	ABB=ON	RADIOISOTOP?/OBI
L11	18113	SEA	FILE=HCAPLUS	ABB=ON	RADIOTHERAP?/OBI
L12			FILE=HCAPLUS		(TENASCIN# OR BRACHONECTIN# OR
		CYTO	TACTIN# OR H	EXABRACH	ION#)/OBI
L14			FILE=HCAPLUS	ABB=ON	L5 AND L6 AND L12 AND ((L7 OR L8-OR
	(1	L9)	OR L11)		
			•		
L5	19252	SEA	FILE=HCAPLUS	ABB=ON	LYMPHOMA+OLD,NT/CT
L7 .			FILE=HCAPLUS		LABEL?/OBI
L8	6646	SEA	FILE=HCAPLUS	ABB=ON	RADIOLABEL?/OBI
L9	12055	SEA	FILE=HCAPLUS	ABB=ON	RADIOISOTOP?/OBI
L11	18113 8	SEA	FILE=HCAPLUS	ABB=ON	RADIOTHERAP?/OBI
L12	1707 :	SEA	FILE=HCAPLUS	ABB=ON	(TENASCIN# OR BRACHONECTIN# OR
	(CYTO	TACTIN# OR H	EXABRACH	ION#)/OBI
L15	20_	SEA	FILE=HCAPLUS	ABB=ON	81C6/OBI
{L16			FILE=HCAPLUS	ABB=ON	L5 AND L15 AND L12 AND ((L7 OR L8 OR)
		L9)_	OR L11)		

=> s (113 or 114 or 116) not 14

L89

13 (L13 OR L14 OR L16) NOT L4

previously printed w/ inventor search

=> fil medl cancer; d que 133; d que 140

FILE 'MEDLINE' ENTERED AT 16:21:05 ON 21 MAR 2005

FILE 'CANCERLIT' ENTERED AT 16:21:05 ON 21 MAR 2005

2096 SEA TENASCIN/CT L29 L30 221519 SEA LYMPHOMA+NT/CT L31 221894 SEA RADIOISOTOPES+NT/CT 626312 SEA ANTIBODIES+NT/CT L321 SEA L29 AND L30 AND L31 AND L32 > L33

2096 SEA TENASCIN/CT L29 221519 SEA LYMPHOMA+NT/CT L30

2605 SEA RADIOIMMUNOTHERAPY/CT L39 0 SEA L29 AND L30 AND L39 L40

=> s 133 not 128

0 L33 NOT (L28) previously printed L90

=> fil embase; d que 158; d que 159; d que 160; d que 162

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FILE COVERS 1974 TO 17 Mar 2005 (20050317/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

3 SEA FILE=EMBASE ABB=ON TENASCIN MONOCLONAL ANTIBODY/CT OR L45 TENASCIN MONOCLONAL ANTIBODY 81C6/CT OR TENASCIN MONOCLONAL ANTIBODY 81C6 I 131/CT 82084 SEA FILE=EMBASE ABB=ON LYMPHOMA+NT/CT L57 1 SEA FILE=EMBASE ABB=ON L57 AND L45 L58

1888 SEA FILE=EMBASE ABB=ON TENASCIN/CT L46 4387 SEA FILE=EMBASE ABB=ON RADIOPHARMACEUTICAL AGENT/CT L47 208 SEA FILE=EMBASE ABB=ON RADIATION CHIMERA/CT L48 17865 SEA FILE=EMBASE ABB=ON CANCER IMMUNOTHERAPY/CT L50 42647 SEA FILE=EMBASE ABB=ON CANCER RADIOTHERAPY/CT L51 L52 3 SEA FILE=EMBASE ABB=ON RADIOIMMUNOTHERAPEUTIC AGENT/CT 1841 SEA FILE=EMBASE ABB=ON RADIOIMMUNOTHERAPY/CT L53 L55 2361 SEA FILE=EMBASE ABB=ON RADIOISOTOPE THERAPY/CT L56 410315 SEA FILE=EMBASE ABB=ON RADIOISOTOPE+NT/CT L57 82084 SEA FILE=EMBASE ABB=ON LYMPHOMA+NT/CT 2 SEA FILE=EMBASE ABB=ON L46 AND L57 AND L50 AND ((L47 OR L48) L59 OR (L51 OR L52 OR L53) OR L55 OR L56)

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L46

1888 SEA FILE=EMBASE ABB=ON TENASCIN/CT

L48

208 SEA FILE=EMBASE ABB=ON RADIATION CHIMERA/CT

L53

1841 SEA FILE=EMBASE ABB=ON RADIOIMMUNOTHERAPY/CT

L57

82084 SEA FILE=EMBASE ABB=ON LYMPHOMA+NT/CT

L60

2-SEA FILE=EMBASE ABB=ON L46-AND L57-AND (L53-OR-L48)
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L47	4387	SEA	FILE=EMBASE	ABB=ON	RADIOPHARMACEUTICAL AGENT/CT
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L51	42647	SEA	FILE=EMBASE	ABB=ON	CANCER RADIOTHERAPY/CT
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L53	1841	SEA	FILE=EMBASE	ABB=ON	RADIOIMMUNOTHERAPY/CT
L54	310383	SEA	FILE=EMBASE	ABB=ON	ANTIBODY+NT/CT
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L56	410315	SEA	FILE=EMBASE	ABB=ON	RADIOISOTOPE+NT/CT
L57	82084	SEA	FILE=EMBASE	ABB=ON	LYMPHOMA+NT/CT
رLi62	4_	SEA	FILE=EMBASE	ABB=ON	(L50 OR L54) AND L46 AND L57 AND (-(L47)
1					OR L52 OR L53) OR (L55 OR L56))

=> s (158 or 159 or 160 or 162) not 144

(L91 3 (L58 OR L59 OR L60 OR L62) NOT (L44) printed

=> fil DRUGU, JICST-EPLUS, PASCAL, BIOTECHNO, ESBIOBASE, BIOSIS, BIOTECHDS, DISSABS, WPIDS

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=> d que 186; d que 185; d que 187

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L66
         226135 SEA LYMPHOMA# OR GERMINOBLASTOMA# OR RETICULOLYMPHOSARCOMA# OR
                GERMINOBLASTICSARCOMA#
L67
              4 SEA (RETICULOLYMPHO OR RETICULO LYMPHO OR GERMINOBLAST? OR
                GERMINO BLAST?) (W) SARCOMA#
L68
          1524 SEA MALIGNANT(A) HISTIOCYTOSIS
          11761 SEA PLASMACYTOMA#
L69
           3530 SEA RETICULOENDOTHELIOSIS OR RETICULO ENDOTHELIOSIS
L70
             84 SEA MAST CELL(2A) SARCOMA#
L71
          36348 SEA MULTIPLE MYELOMA#
L72
L73
          96995 SEA HODGKIN? OR NONHODGKIN?
L74
           6301 SEA TENASCIN# OR HEXABRACHION# OR CYTOTACTIN# OR BRACHONECTIN#
        1466398 SEA ANTIBOD?
L76
         99404 SEA MAB#
L77
L78
         223185 SEA RADIOISOTOP?
         255610 SEA ISOTOP?
L79
         115993 SEA RADIOLABEL?
L80
             21 SEA (L66 OR L67 OR L68 OR L69 OR L70 OR L71 OR L72 OR L73) AND
L86
                L74 AND (L76 OR L77) AND (L78 OR L79 OR L80)
L66
         226135 SEA LYMPHOMA# OR GERMINOBLASTOMA# OR RETICULOLYMPHOSARCOMA# OR
                GERMINOBLASTICSARCOMA#
L67
              4 SEA (RETICULOLYMPHO OR RETICULO LYMPHO OR GERMINOBLAST? OR
                GERMINO BLAST?) (W) SARCOMA#
           1524 SEA MALIGNANT(A) HISTIOCYTOSIS
L68
          11761 SEA PLASMACYTOMA#
L69
L70
           3530 SEA RETICULOENDOTHELIOSIS OR RETICULO ENDOTHELIOSIS
L71
             84 SEA MAST CELL(2A) SARCOMA#
          36348 SEA MULTIPLE MYELOMA#
L72
         96995 SEA HODGKIN? OR NONHODGKIN?
L73
            152 SEA 81C6
L75
         223185 SEA RADIOISOTOP?
L78
L79
        255610 SEA ISOTOP?
L80
         115993 SEA RADIOLABEL?
              6 SEA (L66 OR L67 OR L68 OR L69 OR L70 OR L71 OR L72 OR L73) AND ®
L85
                L75 AND (L78 OR L79 OR L80) 3
L66
         226135 SEA LYMPHOMA# OR GERMINOBLASTOMA# OR RETICULOLYMPHOSARCOMA# OR
                GERMINOBLASTICSARCOMA#
              4 SEA (RETICULOLYMPHO OR RETICULO LYMPHO OR GERMINOBLAST? OR
L67
                GERMINO BLAST?)(W) SARCOMA#
L68
          1524 SEA MALIGNANT(A) HISTIOCYTOSIS
          11761 SEA PLASMACYTOMA#
L69
           3530 SEA RETICULOENDOTHELIOSIS OR RETICULO ENDOTHELIOSIS
L70
L71
             84 SEA MAST CELL(2A) SARCOMA#
          36348 SEA MULTIPLE MYELOMA#
L72
L73
          96995 SEA HODGKIN? OR NONHODGKIN?
L74
           6301 SEA TENASCIN# OR HEXABRACHION# OR CYTOTACTIN# OR BRACHONECTIN#
L75
           152 SEA 81C6
L81
           5742 SEA IMMUNORADIOTHERAP? OR RADIOIMMUNOTHERAP? OR (IMMUNO(A)
                RADIO(A) THERAP?)
L82
            965 SEA (RADIO OR RADIATION) (A) (CHIMER? OR CHIMAER?)
L87
              6 SEA (L66 OR L67 OR L68 OR L69 OR L70 OR L71 OR L72 OR L73) AND
                (L74 OR L75) AND (L81 OR L82)
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=> s (186 or 185 or 187) not 183

COMMAND INTERRUPTED

=> s (186 or 185 or 187) not 183 COMMAND INTERRUPTED

=> s 186 not 183

L92 16 L86 NOT L83

=> s 185 not 183

L93 3 L85 NOT L83

=> s 187 not 183

L94 4 L87 NOT L83

=> s 192-194

L95 19 (L92 OR L93_OR_L94)

/=> dup rem 189,191,195

FILE 'HCAPLUS' ENTERED AT 16:22:22 ON 21 MAR 2005

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PROCESSING COMPLETED FOR L89

PROCESSING COMPLETED FOR L91

PROCESSING COMPLETED FOR L95

L96 21 DUP REM L89 L91 L95 (14 DUPLICATES REMOVED)

ANSWERS '1-13' FROM FILE HCAPLUS

ANSWERS '14-16' FROM FILE EMBASE

ANSWERS '17-18' FROM FILE DRUGU

ANSWER '19' FROM FILE BIOTECHDS

ANSWERS '20-21' FROM FILE WPIDS

(=> d ibib ed abs hitind 1-13; d iall 14-21; fil hom

L96 ANSWER 1 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1

ACCESSION NUMBER:

2005:121072 HCAPLUS

DOCUMENT NUMBER:

142:217385

TITLE:

Humanized and chimeric anti-CD19 antibodies,

fragments and conjugates for diagnosis and treatment

of B cell malignancies and autoimmune diseases

INVENTOR(S):

Hansen, Hans J.; Qu, Zhengxing; Goldenberg, David M.

PATENT ASSIGNEE(S):

Immunomedics, Inc., USA PCT Int. Appl., 81 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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WO 2005012493
                          A2
                                20050210
                                            WO 2004-US24636
                                                                    20040802
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
PRIORITY APPLN. INFO.:
                                            US 2003-491282P
                                                                 P 20030731
     Entered STN: 11 Feb 2005
ED
AΒ
     The present invention provides humanized, chimeric and human anti-CD19
     antibodies, anti-CD19 antibody fusion proteins, and fragments thereof that
     bind to a human B cell marker. Such antibodies, fusion proteins and
     fragments thereof are useful for the treatment and diagnosis of various
     B-cell disorders, including B-cell malignancies and autoimmune diseases.
IC
     ICM C12N
CC
     15-3 (Immunochemistry)
     Section cross-reference(s): 1, 8, 9, 63
ST
     humanized monoclonal antibody CD19 conjugate B cell malignancy;
     autoimmune disease B cell CD19 antibody diagnostic therapeutic
     conjugate
IT
     Interleukins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (21; humanized and chimeric anti-CD19 antibodies, fragments
        and conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
IT
    Leukemia
       Lymphoma
        (B-cell; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Disease, animal
        (B-lymphocyte, malignancy; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
    Disease, animal
IT
        (B-lymphocyte; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD126; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD138; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     CD antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD33; humanized and chimeric anti-CD19 antibodies, fragments
        and conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
```

```
IT
     CD antiqens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD37; humanized and chimeric anti-CD19 antibodies, fragments
        and conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
IT
     Glycoproteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD40-L (antigen CD40 ligand); humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
     CD antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD52; humanized and chimeric anti-CD19 antibodies, fragments
        and conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
IT
     Cytokine receptors
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (DR4 (death receptor 4); humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
     Cytokine receptors
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (DR5 (death receptor 5); humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
     Fibronectins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (ED-B; humanized and chimeric anti-CD19 antibodies, fragments
        and conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
TΤ
     Kidney, disease
        (Goodpasture's syndrome; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
     Histocompatibility antigens
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (HLA-DR; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (HM1.24; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Purpura (disease)
        (Henoch-Schoenlein's; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
    Histocompatibility antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (I-A; humanized and chimeric anti-CD19 antibodies, fragments
        and conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
```

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Cell adhesion molecules
TT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (ICAM-1 (intercellular adhesion mol. 1); humanized and chimeric
        anti-CD19 antibodies, fragments and conjugates for diagnosis
        and treatment of B cell malignancies and autoimmune diseases)
TТ
     Kidney, disease
        (IgA nephropathy; humanized and chimeric anti-CD19 antibodies
        , fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
     Immunoglobulin receptors
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (IgE type II; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
     Antibodies and Immunoglobulins
TT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (IgG1; humanized and chimeric anti-CD19 antibodies, fragments
        and conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
IT
     Proteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MCP (membrane cofactor protein); humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
    Mucins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MUC1; humanized and chimeric anti-CD19 antibodies, fragments
        and conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
ΙT
    Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (NCA 66a; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (NCA 66b; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
ΙT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (NCA 66c; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
TT
    Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (NCA 66d; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Proteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (PAP (pokeweed antiviral protein), conjugates; humanized and chimeric
```

```
anti-CD19 antibodies, fragments and conjugates for diagnosis
        and treatment of B cell malignancies and autoimmune diseases)
TT
     Proteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (PAP (pokeweed antiviral protein); humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
TТ
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (SSEA-1 (stage-specific embryonic antigen 1); humanized and chimeric
        anti-CD19 antibodies, fragments and conjugates for diagnosis
        and treatment of B cell malignancies and autoimmune diseases)
     Enzymes, biological studies
TT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (Serratia protease; humanized and chimeric anti-CD19 antibodies
        , fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Brain, disease
        (Sydenham's chorea; humanized and chimeric anti-CD19 antibodies
        , fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Antiqens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (T101; humanized and chimeric anti-CD19 antibodies, fragments
        and conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
     Granulomatous disease
IT
        (Wegener's granulomatosis; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
     Imaging agents
        (acoustic, enhancer; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
ΙT
     Immunosuppressants
        (adrenocortical; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Diagnosis
        (agents, conjugates; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
     Sulfonic acids, biological studies
ΙT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (alkanesulfonic, salts; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
TT
     Nervous system, disease
        (amyotrophic lateral sclerosis; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
     Inflammation
     Spinal column, disease
        (ankylosing spondylitis; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
     Necrosis
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(antigen; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
     Cytotoxic agents
IT
        (antimetabolites; humanized and chimeric anti-CD19 antibodies
        , fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
     Artery, disease
IT
     Inflammation
        (arteritis, Takayasu's; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
     Artery, disease
IT
     Inflammation
        (arteritis, giant cell; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
     Autoimmune disease
IT
     Inflammation
     Thyroid gland, disease
        (autoimmune thyroiditis; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
     Skin, disease
        (bullous pemphigoid; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
     Enzymes, biological studies
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (carbohydrate-metabolizing, carbohydrate-cleaving; humanized and
        chimeric anti-CD19 antibodies, fragments and conjugates for
        diagnosis and treatment of B cell malignancies and autoimmune diseases)
IT
        (cell, host; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Multiple myeloma
        (cell; humanized and chimeric anti-CD19 antibodies, fragments
        and conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
     Antibodies and Immunoglobulins
IT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (chimeric; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
     Infection
IT
        (chronic viral hepatitis; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
     Reagents
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (clearing; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
        (conjugates; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
     Antibodies and Immunoglobulins
IT
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TT

IT

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RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
   (conjugates; humanized and chimeric anti-CD19 antibodies,
   fragments and conjugates for diagnosis and treatment of B cell
   malignancies and autoimmune diseases)
Abrins
Ricins
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (conjugates; humanized and chimeric anti-CD19 antibodies,
   fragments and conjugates for diagnosis and treatment of B cell
   malignancies and autoimmune diseases)
Imaging agents
   (contrast; humanized and chimeric anti-CD19 antibodies,
   fragments and conjugates for diagnosis and treatment of B cell
   malignancies and autoimmune diseases)
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (diphtheria, conjugates; humanized and chimeric anti-CD19
   antibodies, fragments and conjugates for diagnosis and
   treatment of B cell malignancies and autoimmune diseases)
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (diphtheria; humanized and chimeric anti-CD19 antibodies,
   fragments and conjugates for diagnosis and treatment of B cell
   malignancies and autoimmune diseases)
Gamma ray
   (emitting isotope; humanized and chimeric anti-CD19 antibodies
    fragments and conjugates for diagnosis and treatment of B cell
   malignancies and autoimmune diseases)
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (endotoxins, Pseudomonas; humanized and chimeric anti-CD19
   antibodies, fragments and conjugates for diagnosis and
   treatment of B cell malignancies and autoimmune diseases)
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (enterotoxin A; humanized and chimeric anti-CD19 antibodies,
   fragments and conjugates for diagnosis and treatment of B cell
   malignancies and autoimmune diseases)
Blood vessel, disease
Skin, disease
   (erythema nodosum; humanized and chimeric anti-CD19 antibodies
    fragments and conjugates for diagnosis and treatment of B cell
   malignancies and autoimmune diseases)
Toxins
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (exotoxins, Pseudomonas; humanized and chimeric anti-CD19
   antibodies, fragments and conjugates for diagnosis and
   treatment of B cell malignancies and autoimmune diseases)
Lung, disease
   (fibrosis; humanized and chimeric anti-CD19 antibodies,
   fragments and conjugates for diagnosis and treatment of B cell
   malignancies and autoimmune diseases)
Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
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DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (fragments; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Liposomes
        (gas-filled; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
     Inflammation
TТ
     Kidney, disease
        (glomerulonephritis, rapidly progressive; humanized and chimeric
        anti-CD19 antibodies, fragments and conjugates for diagnosis
        and treatment of B cell malignancies and autoimmune diseases)
     Antibodies and Immunoglobulins
TT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (heavy chain; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
     Addison's disease
ΙT
     Alkylating agents, biological
     Angiogenesis inhibitors
     Animal tissue culture
     Antibiotics
     Autoimmune disease
     B cell (lymphocyte)
     Canis familiaris
     Color formers
     Cytotoxic agents
     DNA sequences
     Dermatomyositis
     Dermatomyositis
     Diabetes mellitus
     Domestic animal
     Drug delivery systems
     Dyes
     Felis catus
     Genetic vectors
     Human
     Immunomodulators
       Labels
     Lymphocyte
     Mammalia
     Molecular cloning
     Multiple sclerosis
     Mus musculus
     Myasthenia gravis
     Protein sequences
     Pseudomonas
     Psoriasis
     Rheumatic fever
     Rheumatoid arthritis
     Sarcoidosis
     Sjogren's syndrome
     Staphylococcus
        (humanized and chimeric anti-CD19 antibodies, fragments and
        conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
IT
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
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DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (humanized and chimeric anti-CD19 antibodies, fragments and
        conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
TΤ
     Abrins
    Alkaloids, biological studies
     Anthracyclines
     CD14 (antigen)
     CD19 (antigen)
     CD20 (antigen)
     CD22 (antigen)
     CD38 (antigen)
     CD4 (antigen)
     CD40 (antigen)
     CD5 (antigen)
     CD8 (antigen)
     CD80 (antigen)
     CD80 (antigen)
     Corticosteroids, biological studies
     Cytokines
     Enzymes, biological studies
     Fusion proteins (chimeric proteins)
     Gene, animal
     Hemopoietins
     Hormones, animal, biological studies
     Interferons
     Interleukin 1
     Interleukin 10
     Interleukin 12
     Interleukin 18
     Interleukin 2
     Interleukin 2
     Interleukin 3
     Interleukin 6
     Interleukin 6
     Interleukins
     Invariant chain (class II antigen)
     Invariant chain (class II antigen)
     Lymphotoxin
     Nucleic acids
     Oligonucleotides
     Ricins
     Stem cell factor
       Tenascins
     Toxins
     Tumor necrosis factors
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (humanized and chimeric anti-CD19 antibodies, fragments and
        conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
IT
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (humanized; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Purpura (disease)
        (idiopathic thrombocytopenic, acute and chronic; humanized and chimeric
        anti-CD19 antibodies, fragments and conjugates for diagnosis
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and treatment of B cell malignancies and autoimmune diseases)
 IT
      Drug delivery systems
         (immunoconjugates; humanized and chimeric anti-CD19 antibodies
         , fragments and conjugates for diagnosis and treatment of B cell
         malignancies and autoimmune diseases)
 IΤ
      Diagnosis
         (immunodiagnosis; humanized and chimeric anti CD19 antibodies
         , fragments and conjugates for diagnosis and treatment of B cell
         malignancies and autoimmune diseases)
      Drug delivery systems
 TT
         (immunotoxins; humanized and chimeric anti-CD19 antibodies,
         fragments and conjugates for diagnosis and treatment of B cell
         malignancies and autoimmune diseases)
      Apoptosis
 IT
      Mitosis
         (inhibitors; humanized and chimeric anti-CD19 antibodies,
         fragments and conjugates for diagnosis and treatment of B cell
         malignancies and autoimmune diseases)
      Paramagnetic materials
 IT
         (ions; humanized and chimeric anti-CD19 antibodies, fragments
         and conjugates for diagnosis and treatment of B cell malignancies and
         autoimmune diseases)
 IT
      Radionuclides, biological studies
      RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
      (Therapeutic use); BIOL (Biological study); USES (Uses)
         (label; humanized and chimeric anti-CD19 antibodies
         , fragments and conjugates for diagnosis and treatment of B cell
         malignancies and autoimmune diseases)
 TT
      Antibodies and Immunoglobulins
      RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
      DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
      (Biological study); PREP (Preparation); USES (Uses)
         (light chain; humanized and chimeric anti-CD19 antibodies,
         fragments and conjugates for diagnosis and treatment of B cell
         malignancies and autoimmune diseases)
 ΙT
      Drug delivery systems
         (liposomes; humanized and chimeric anti-CD19 antibodies,
         fragments and conjugates for diagnosis and treatment of B cell
         malignancies and autoimmune diseases)
· IT
      Inflammation
      Kidney, disease
         (lupus nephritis; humanized and chimeric anti-CD19 antibodies
         , fragments and conjugates for diagnosis and treatment of B cell
         malignancies and autoimmune diseases)
 IT
      Animal cell
         (mammalian; humanized and chimeric anti-CD19 antibodies,
         fragments and conjugates for diagnosis and treatment of B cell
         malignancies and autoimmune diseases)
 TT
      Inflammation
      Kidney, disease
         (membranous glomerulonephritis; humanized and chimeric anti-CD19
         antibodies, fragments and conjugates for diagnosis and
         treatment of B cell malignancies and autoimmune diseases)
      Antibodies and Immunoglobulins
IT
      RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
      DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
      (Biological study); PREP (Preparation); USES (Uses)
         (monoclonal; humanized and chimeric anti-CD19 antibodies,
         fragments and conjugates for diagnosis and treatment of B cell
         malignancies and autoimmune diseases)
 IT
      Erythema
         (multiforme; humanized and chimeric anti-CD19 antibodies,
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fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) TT Antigens RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (necrosis; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Inflammation Kidney, disease (nephritis, post-streptococcal; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) TT Lymphoma (non-Hodgkin's; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) Metals, biological studies TΤ RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (non-radioactive; humanized and chimeric anti-CD19 antibodies , fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) TΤ Gene, animal RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (oncogene; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) Genetic vectors IT (pdHL2; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) TT Skin, disease (pemphigus vulgaris; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) TT Artery, disease Inflammation (periarteritis nodosa; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Anemia (disease) (pernicious anemia; humanized and chimeric anti-CD19 antibodies , fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Chemicals (photoactive; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) Bone, disease IT Inflammation (polychondritis; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Autoimmune disease Endocrine system, disease (polyglandular syndrome; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Muscle, disease (polymyalgia rheumatica; humanized and chimeric anti-CD19

antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) TТ Myositis (polymyositis; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) Biliary tract, disease IT (primary biliary cirrhosis; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) ITFibrosis (pulmonary; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Diagnosis (radiodiagnostic agents; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Proteins RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (saporin; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) TT Proteins RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (saporins, conjugates; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) Connective tissue, disease IT (scleroderma; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Lupus erythematosus (systemic; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Infection Nerve, disease (tabes dorsalis; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) Thrombosis IT (thromboangiitis obliterans; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Thyroid gland, disease (thyrotoxicosis; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Complement receptors RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (type 2; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases) IT Inflammation Intestine, disease (ulcerative colitis; humanized and chimeric anti-CD19 antibodies, fragments and conjugates for diagnosis and treatment of B cell malignancies and autoimmune diseases)

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IT
     Alkaloids, biological studies
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (vinca; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
TT
     Hepatitis
        (viral, chronic; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Interleukin 2 receptors
     Interleukin 2 receptors
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (α chain; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (\alpha-; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
    Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (α; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (β; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (\gamma; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     842984-78-5DP, conjugates
                                 842984-80-9DP, conjugates
                                                              842984-82-1DP,
                  842984-84-3DP, conjugates
     conjugates
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (amino acid sequence; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
                            12587-47-2, β-Ray
TT
     12585-85-2, Positron
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (emitting isotope; humanized and chimeric anti-CD19 antibodies
        , fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
                                 805234-74-6
IT
     380538-12-5
                   732296-31-0
                                               805234-75-7
                                                              805234-76-8
     805234-77-9
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP
     (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (humanized and chimeric anti-CD19 antibodies, fragments and
        conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
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57-13-6D,
    50-35-1D, Thalidomide, derivs. 55-86-7, Nitrogen mustard
TТ
                                                                60-34-4D,
    Urea, substituted derivs. 59-30-3D, Folic acid, analogs
                                                             151-56-4D,
                                120-73-0D, Purine, analogs
    Methyl hydrazine, derivs.
     Ethylenimine, derivs. 289-95-2D, Pyrimidine, analogs
                                                             1605-68-1D,
                      4375-07-9D, Epipodophyllotoxin, derivs.
                                                                7439-89-6,
     Taxane, derivs.
                               7439-96-5, Manganese, biological studies
     Iron, biological studies
     7440-06-4D, Platinum, coordination compds.
                                                7440-54-2, Gadolinium,
                         7689-03-4D, Camptothecin, derivs.
    biological studies
                                                             9001-78-9D,
     Alkaline phosphatase, antibody conjugates
                                               9001-99-4D,
     Ribonuclease, antibody conjugates
                                        9003-98-9D, DNase I,
                         9004-08-4D, Cathepsin, antibody
     antibody conjugates
                 9014-01-1D, Subtilisin, antibody conjugates
     conjugates
                                     9014-42-0D, Thrombopoietin,
     9014-06-6D, antibody conjugates
     antibody conjugates
                          9016-17-5D, Arylsulfatase, antibody
                9025-05-2D, Cytosine deaminase, antibody conjugates
     conjugates
     9031-96-3D, Peptidase, antibody conjugates
                                                 9031-98-5D,
     Carboxypeptidase, antibody conjugates
                                            9073-60-3D,
                          9073-78-3D, Thermolysin, antibody
     antibody conjugates
                 9077-67-2D, D-Alanine Carboxypeptidase, antibody
     conjugates
                 10043-66-0, Iodine-131, biological studies
                                                              10098-91-6,
     conjugates
     Yttrium-90, biological studies
                                    11096-26-7D, Erythropoietin,
                         13010-20-3D, Nitrosourea, derivs.
     antibody conjugates
     13981-22-1, Nitrogen-13, biological studies 13981-25-4, Copper-64,
     biological studies 13981-56-1, Fluorine-18, biological studies
     13982-43-9, Oxygen-15, biological studies
                                               14119-09-6, Gallium-67,
     biological studies 14158-30-6, Iodine-124, biological studies
     14158-31-7, Iodine-125, biological studies 14265-75-9, Lutetium-177,
     biological studies 14265-85-1, Actinium-225, biological studies
     14276-53-0, Copper-62, biological studies 14333-33-6, Carbon-11,
     biological studies 14378-26-8, Rhenium-188, biological studies
     14596-37-3, Phosphorus-32, biological studies 14809-53-1, Yttrium-86,
     biological studies 14913-49-6, Bismuth-212, biological studies
     14998-63-1, Rhenium-186, biological studies
                                                  15056-34-5D, Triazene,
              15715-08-9, Iodine-123, biological studies
                                                           15750-15-9,
     Indium-111, biological studies 15755-39-2, Astatine-211, biological
             15757-14-9, Gallium-68, biological studies
                                                          15757-86-5,
     Copper-67, biological studies 15765-38-5, Bromine-76, biological studies
                                                  23214-92-8D, Doxorubicin,
     15776-20-2, Bismuth-213, biological studies
              33069-62-4D, Taxol, derivs.
                                           62683-29-8, Colony-stimulating
             75037-46-6D, Gelonin, antibody conjugates
     83869-56-1D, GM-CSF, antibody conjugates
                                               109675-94-7,
                               127464-60-2, VEGF
                                                  143011-72-7D, G-CSF,
     Placental growth factor
                         187888-07-9, Endostatin 378784-41-9,
     antibody conjugates
     Technetium-94m, biological studies
                                        378784-45-3, Technetium-99m,
     biological studies
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (humanized and chimeric anti-CD19 antibodies, fragments and
        conjugates for diagnosis and treatment of B cell malignancies and
        autoimmune diseases)
                               329900-75-6, COX-2
IT
     140879-24-9, Proteasome
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (inhibitors; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
                                842984-79-6DP, conjugates 842984-81-0DP,
IT
     842982-52-9DP, conjugates
                  842984-83-2DP, conjugates
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (nucleotide sequence; humanized and chimeric anti-CD19
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antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
IT
     9001-92-7D, Proteinase, antibody conjugates
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
         (protease; humanized and chimeric anti-CD19 antibodies,
        fragments and conjugates for diagnosis and treatment of B cell
        malignancies and autoimmune diseases)
IT
     842988-53-8
     RL: PRP (Properties)
         (unclaimed protein sequence; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
                    842988-43-6
                                   842988-44-7
                                                   842988-45-8
IT
     842988-42-5
                                                                  842988-46-9
     842988-47-0
                    842988-48-1
                                   842988-49-2
                                                   842988-50-5
                                                                  842988-51-6
                    842988-54-9, 2: PN: WO2005012493 unclaimed sequence
     842988-52-7
     842988-55-0, 3: PN: WO2005012493 unclaimed sequence
     RL: PRP (Properties)
         (unclaimed sequence; humanized and chimeric anti-CD19
        antibodies, fragments and conjugates for diagnosis and
        treatment of B cell malignancies and autoimmune diseases)
L96 ANSWER 2 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2
ACCESSION NUMBER:
                           2004:934484 HCAPLUS
DOCUMENT NUMBER:
                           141:409779
TITLE:
                           Polyvalent protein complexes including trivalent
                           bispecific chimeric antibodies and
                           conjugates for diagnosis and treatment of cancer,
                           infection, cardiological disorder and autoimmune
                           disease
INVENTOR(S):
                           Rossi, Edmund A.; Chang, Chien-Hsing; McBride, William
                           J.
PATENT ASSIGNEE(S):
                           IBC Pharmaceuticals, USA; Immunomedics, Inc
SOURCE:
                           PCT Int. Appl., 148 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:
                           Patent
LANGUAGE:
                           English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                               APPLICATION NO.
     PATENT NO.
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     WO 2004094613
                           A2
                                  20041104
                                              WO 2004-US12662
                                                                       20040422
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
              NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
              TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
              SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
              TD, TG
     US 2005003403
                                  20050106
                                               US 2004-829388
                            Α1
                                                                         20040422
PRIORITY APPLN. INFO.:
                                                US 2003-464532P
                                                                     Ρ
                                                                        20030422
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ED Entered STN: 06 Nov 2004

AB The invention provides for a polyvalent protein complex (PPC) comprising two polypeptide chains generally arranged laterally to one another. Each polypeptide chain typically comprises 3 or 4 'v-regions', which comprise amino acid sequences capable of forming an antigen binding site when

US 2003-525391P

P 20031124

matched with a corresponding v-region on the opposite polypeptide chain. Up to about 6 'v-regions' can be used on each polypeptide, chain. The v-regions of each polypeptide chain are connected linearly to one another and may be connected by interspersed linking regions. When arranged in the form of the PPC, the v-regions on each polypeptide chain form individual antigen binding sites.

- IC ICM C12N
- CC 15-3 (Immunochemistry)

Section cross-reference(s): 3, 9, 63

IT Autoimmune disease

(B cell; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Leukemia

Lymphoma

(B-cell; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Proteins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (BS14HP; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT CD antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (CD33; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (CSAp or colon-specific antigen-p; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Histocompatibility antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (HLA-A3; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Histocompatibility antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (HLA-DR; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Purpura (disease)

(Henoch-Schoenlein's; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Histocompatibility antigens

IT

IT

IT

IT

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disease)

Mucins

```
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (I-A; polyvalent protein complexes including trivalent bispecific
   chimeric antibodies and conjugates for diagnosis and
   treatment of cancer, infection, cardiol. disorder and autoimmune
   disease)
Kidney, disease
   (IgA nephropathy; polyvalent protein complexes including trivalent
   bispecific chimeric antibodies and conjugates for diagnosis
   and treatment of cancer, infection, cardiol. disorder and autoimmune
   disease)
Immunoglobulin receptors
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (IgE type II; polyvalent protein complexes including trivalent
   bispecific chimeric antibodies and conjugates for diagnosis
   and treatment of cancer, infection, cardiol. disorder and autoimmune
   disease)
Antigens
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (KS-1; polyvalent protein complexes including trivalent bispecific
   chimeric antibodies and conjugates for diagnosis and
   treatment of cancer, infection, cardiol. disorder and autoimmune
   disease)
Blood-group substances
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (Ley; polyvalent protein complexes including trivalent bispecific
   chimeric antibodies and conjugates for diagnosis and
   treatment of cancer, infection, cardiol. disorder and autoimmune
   disease)
Antigens
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (MAA (melanoma-associated antigen); polyvalent protein complexes including
   trivalent bispecific chimeric antibodies and conjugates for
   diagnosis and treatment of cancer, infection, cardiol disorder and
   autoimmune disease)
Antigens
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (MAGE (melanoma antigen-encoding gene); polyvalent protein complexes
   including trivalent bispecific chimeric antibodies and
   conjugates for diagnosis and treatment of cancer, infection, cardiol.
   disorder and autoimmune disease)
Mucins
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (MUC1; polyvalent protein complexes including trivalent bispecific
   chimeric antibodies and conjugates for diagnosis and
   treatment of cancer, infection, cardiol. disorder and autoimmune
   disease)
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (MUC2; polyvalent protein complexes including trivalent bispecific
   chimeric antibodies and conjugates for diagnosis and
   treatment of cancer, infection, cardiol. disorder and autoimmune
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RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU

(Therapeutic use); BIOL (Biological study); USES (Uses)
(MUC3; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Mucins

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (MUC4; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (NCA66; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Imaging

(NMR; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (PAM-4; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (PSMA; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Calcium-binding proteins

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (S-100; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Cough

(Sydenham's chorea; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (T101; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (TAG-72 (tumor-associated glycoprotein 72); polyvalent protein complexes including trivalent bispecific chimeric antibodies and

conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)
Granulomatous disease
(Wegener's granulomatosis; polyvalent protein complexes including

(Wegener's granulomatosis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Imaging

IT

(acoustic; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Lymphocyte

Macrophage

Monocyte

Polymorphonuclear leukocyte

(activated; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Purification

(affinity; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Sulfonic acids, biological studies
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(alkanesulfonic, salts; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Nervous system, disease

(amyotrophic lateral sclerosis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (anti-idiotypic; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Estrogens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (antiestrogens; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Carcinoma

Leukemia

Lymphoma

Necrosis

Neuroglia, neoplasm

Sarcoma

(antigen; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Artery, disease

Inflammation

(arteritis, Takayasu's; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Artery, disease

Inflammation

(arteritis, giant cell; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Allergy

(atopy; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Autoimmune disease

Inflammation

Thyroid gland, disease

(autoimmune thyroiditis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Infection

(bacterial; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (bispecific; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Skin, disease

(bullous pemphigoid; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Diagnosis

(cancer; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Ischemia

(cardiac; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Drug delivery systems

(carriers; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Biology

(cell, host; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (chimeric; polyvalent protein complexes including trivalent bispecific

chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Infection

(chronic active hepatitis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Proteins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (complexes, polyvalent; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antibodies and Immunoglobulins

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (conjugates; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Immunity

(disorder, B cell; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Imaging agents

(enhancer; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Blood vessel, disease

Skin, disease

(erythema nodosum; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Lung, disease

(fibrosis; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Receptors

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (folate; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Liposomes

(gas-filled; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Inflammation

Kidney, disease

(glomerulonephritis, rapidly progressive; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Proteins

RL: BPN (Biosynthetic preparation); RSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (hBS14; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (heavy chain; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Parvo-like virus

(human serum; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Purpura (disease)

(idiopathic thrombocytopenic, acute and chronic; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Drug delivery systems

(immunoconjugates; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Diagnosis

(immunodiagnosis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Immunoassay

(immunol. staining; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Drug delivery systems

(immunotoxins; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Heart, disease

(infarction; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Parasite

(infection; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Microorganism

Pathogen

(infectious; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Heart, disease

(ischemia; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(light chain; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Peptides, biological studies

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(linker; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Membrane, biological

(lipid; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol disorder and autoimmune disease)

IT Drug delivery systems

(liposomes; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Inflammation

Kidney, disease

(lupus nephritis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Animal cell

(mammalian; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Lipids, biological studies

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (membrane; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT 'Inflammation

Kidney, disease

(membranous glomerulonephritis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Erythema

(multiforme; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis

and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (multispecific; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune

disease)
IT Animal cell line

(murine myeloma; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (necrosis; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Inflammation

Kidney, disease

(nephritis, post-streptococcal; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Chloramines

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (nitrogen mustards; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Drug delivery systems

(parenterals; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Plasmids

(pdHL2; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Skin, disease

(pemphigus vulgaris; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Linking agents

(peptide; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Anemia (disease)

(pernicious anemia; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Bone, disease Inflammation

(polychondritis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Autoimmune disease

Endocrine system, disease

(polyglandular syndrome; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Disease, animal

(polymyalgia; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Myositis

(polymyositis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Addison's disease

Alzheimer's disease

Antibiotics

Antitumor agents

Atherosclerosis

Bacillus anthracis

Blastomyces dermatitidis

Blood serum

Bluetonque virus

Brucella melitensis

Candida albicans

Coccidioides immitis

Combination chemotherapy

Cosmids

Cryptococcus neoformans

Cytomegalovirus

DNA sequences

Denque virus

Dermatomyositis

Diabetes mellitus

Drugs

Epidermophyton

Epitopes

Escherichia coli

Feline leukemia virus

Hepatitis B virus

Herpesviridae

Histoplasma capsulatum

Human

Human T-lymphotropic virus

Human adenovirus

Human herpesvirus

Human herpesvirus 3

Human herpesvirus 4

Human immunodeficiency virus

Human poliovirus

Immunoassay

Immunotherapy

Infection

Inflammation

Influenza virus

Labels

```
Legionella pneumophila
Lyme disease
Lymphocytic choriomeningitis virus
Malaria
Measles virus
Microsporum
Molecular cloning
Mouse mammary tumor virus
Multiple myeloma
Multiple sclerosis
Mumps virus
Murine leukemia virus
Myasthenia gravis
Mycobacterium leprae
Mycobacterium tuberculosis
Mycoplasma
Mycosis
Neisseria gonorrhoeae
Neisseria meningitidis
Plant cell
Plasmids
Positron-emission tomography
Protein sequences
Pseudomonas aeruginosa
Psoriasis
Rabies virus
Reoviridae
Respiratory syncytial virus
Rheumatic fever
Rheumatoid arthritis
Rodentia
Rubella virus
Sarcoidosis
Sendai virus
Simian virus 40
Sindbis virus
Single-photon-emission computed tomography
Sjogren's syndrome
Spirochaeta
Sporothrix schenckii
Streptococcus agalactiae
Streptococcus pneumoniae
Streptococcus pyogenes
Tomography
Transplant rejection
Treponema pallidum
Trichophyton
Vesicular stomatitis virus
Yeast
   (polyvalent protein complexes including trivalent bispecific chimeric
   antibodies and conjugates for diagnosis and treatment of
   cancer, infection, cardiol. disorder and autoimmune disease)
Fusion proteins (chimeric proteins)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
   (polyvalent protein complexes including trivalent bispecific chimeric
   antibodies and conjugates for diagnosis and treatment of
   cancer, infection, cardiol. disorder and autoimmune disease)
Antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
   (polyvalent protein complexes including trivalent bispecific chimeric
```

IT

IT

```
antibodies and conjugates for diagnosis and treatment of
        cancer, infection, cardiol. disorder and autoimmune disease)
     Promoter (genetic element)
     RL: BSU (Biological study, unclassified); BUU (Biological use,
     unclassified); BIOL (Biological study); USES (Uses)
        (polyvalent protein complexes including trivalent bispecific chimeric
        antibodies and conjugates for diagnosis and treatment of
        cancer, infection, cardiol. disorder and autoimmune disease)
IT
     Androgens
     CA 125 (carbohydrate antigen)
     CD19 (antigen)
     CD20 (antigen)
     CD22 (antigen)
     CD30 (antigen)
     CD45 (antigen)
     CD80 (antigen)
     Carcinoembryonic antigen
     Cytokines
     Enzymes, biological studies
     Epidermal growth factor receptors
     Estrogens
     Growth factors, animal
     Haptens
     Interleukin 1
     Interleukin 10
     Interleukin 12
     Interleukin 2
     Interleukin 3
     Interleukin 6
     Invariant chain (class II antigen)
     Lymphokines
     Metals, biological studies
     Nucleic acids
     Progestogens
     Prostate-specific antigen
     Radionuclides, biological studies
     Steroids, biological studies
       Tenascins
     Toxins
     neu (receptor)
     α-Fetoproteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (polyvalent protein complexes including trivalent bispecific chimeric
        antibodies and conjugates for diagnosis and treatment of
        cancer, infection, cardiol. disorder and autoimmune disease)
TT
     Biliary tract, disease
        (primary biliary cirrhosis; polyvalent protein complexes including
        trivalent bispecific chimeric antibodies and conjugates for
        diagnosis and treatment of cancer, infection, cardiol. disorder and
        autoimmune disease)
TT
     Drug delivery systems
        (prodrugs; polyvalent protein complexes including trivalent bispecific
        chimeric antibodies and conjugates for diagnosis and
        treatment of cancer, infection, cardiol. disorder and autoimmune
        disease)
IT
     Fibrosis
        (pulmonary; polyvalent protein complexes including trivalent bispecific
        chimeric antibodies and conjugates for diagnosis and
        treatment of cancer, infection, cardiol. disorder and autoimmune
        disease)
IT
     Proteins
```

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (recombinant, chimeric; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Proteins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (recombinant; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Connective tissue, disease

(scleroderma; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Corticosteroids, biological studies

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (suppressants and antagonists; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Lupus erythematosus

(systemic; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Infection

Nerve, disease

(tabes dorsalis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Thrombosis

(thromboangiitis obliterans; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Thyroid gland, disease

(thyrotoxicosis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-associated, EGP-1; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-associated, EGP-2; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-associated; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Antigens

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-specific antigens; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Complement receptors

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (type 2; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Haemophilus influenzae

(type b; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Inflammation

Intestine, disease

(ulcerative colitis; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Alkaloids, biological studies

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (vinca; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Hepatitis

(viral, chronic active; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Infection

(viral; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Wart

(virus; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Animal virus

(wart; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Interleukin 2 receptors

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(α chain; polyvalent protein complexes including trivalent bispecific chimeric **antibodies** and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Interferons

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (α; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Interferons

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (β; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT Interferons

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (γ; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

IT 790727-14-9P 790793-15-6P 790793-18-9P 790793-19-0P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
 (amino acid seqence; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

50-18-0, Cyclophosphamide 50-35-1, Thalidomide TT 50-02-2, Dexamethasone 50-44-2, Mercaptopurine 50-76-0, Dactinomycin 51-21-8, Fluorouracil 51-75-2, Mechlorethamine 52-24-4, Thiotepa 53-03-2, Prednisone 53-19-0, Mitotane 55-98-1, Busulfan 56-53-1, Diethylstilbestrol 57-13-6D, Urea, substituted derivs. 57-22-7, Vincristine 57-63-6, Ethinyl estradiol 57-85-2, Testosterone propionate 58-05-9, Leucovorin 59-05-2, Methotrexate 59-30-3D, Folic acid, analogs 60-34-4D. Methylhydrazine, derivs. 66-75-1, Uracil mustard 70-47-3, L-Asparagine, biological studies 71-58-9, Medroprogesterone acetate 76-43-7, Fluoxymesterone 120-73-0D, Purine, analogs 127-07-1, 147-94-4, Cytarabine 148-82-3, Melphalan Hydroxyurea 151-56-4D, Ethylenimine, derivs. 154-42-7, Thioguanine 154-93-8, Carmustine 305-03-3, Chlorambucil 595-33-5, 289-95-2D, Pyrimidine, analogs 630-56-8, Hydroxyprogesterone caproate Megestrol acetate 671-16-9, Procarbazine 865-21-4, Vinblastine 1404-00-8, Mitomycin 1605-68-1D, Taxane, derivs. 2169-64-4, Azaribine 4342-03-4, Dacarbazine 7429-91-6, Dysprosium, biological studies 4346-18-3, Phenyl butyrate 7439-89-6, Iron, biological studies 7439-96-5, Manganese, biological 7440-00-8, Neodymium, biological studies 7440-02-0, Nickel, biological studies 7440-06-4D, Platinum, coordination complexes 7440-19-9, Samarium, biological studies 7440-27-9, Terbium, biological

7440-47-3, Chromium, biological studies studies 7440-48-4, Cobalt, 7440-50-8, Copper, biological studies 7440-52-0, biological studies Erbium, biological studies 7440-54-2, Gadolinium, biological studies 7440-60-0, Holmium, biological studies 7440-62-2, Vanadium, biological 7440-64-4, Ytterbium, biological studies 9002-61-3, Human 9014-42-0, Thrombopoietin 10043-66-0, chorionic gonadotropin Iodine-131, biological studies 10098-91-6, Yttrium-90, biological 11056-06-7, Bleomycin 11096-26-7, 10540-29-1, Tamoxifen Erythropoietin 13010-20-3, Nitrosourea 13010-47-4, Lomustine 13967-65-2, Holmium-166, biological studies 13909-09-6, Semustine 13981-25-4, Copper-64, biological studies 13981-27-6, Zirconium-89, biological studies 13981-56-1, Fluorine-18, biological studies 14093-04-0, Iron-52, biological studies 14119-09-6, Gallium-67, 14158-30-6, Iodine-124, biological studies biological studies 14191-64-1, Praseodymium-142, 14158-31-7, Iodine-125, biological studies biological studies 14265-75-9, Lutetium-177, biological studies 14265-85-1, Actinium-225, biological studies 14276-53-0, Copper-62, biological studies 14333-34-7, Gadolinium-155, biological studies 14378-26-8, Rhenium-188, biological studies 14391-19-6, Terbium-161, biological studies 14391-32-3, Gadolinium-157, biological studies 14391-96-9, Scandium-47, biological studies 14392-07-5, Gadolinium-156, biological studies 14596-37-3, Phosphorus-32, biological studies 14683-24-0, Gadolinium-154, biological studies 14809-53-1, Yttrium-86, biological studies 14809-55-3, Technetium-94, biological studies 14913-49-6, Bismuth-212, biological studies 14998-63-1, Rhenium-186, biological studies 15056-34-5D, Triazene, derivs. 15068-71-0, 15092-94-1, Lead-212, biological Gadolinium-158, biological studies 15438-31-0, Ferrous ion, biological studies 15623-45-7, Radium-223, biological studies 15663-27-1, Cisplatin 15715-08-9, Iodine-123, biological studies 15749-66-3, Phosphorus-33, biological 15750-15-9, Indium-111, biological studies 15755-39-2, studies Astatine-211, biological studies 15757-14-9, Gallium-68, biological 15757-86-5, Copper-67, biological studies 15760-04-0, studies Silver-111, biological studies 15766-00-4, Samarium-153, biological 15776-20-2, Bismuth-213, biological studies 15840-01-4, studies Dysprosium-166, biological studies 18378-89-7, Mithramycin 18883-66-4. 20830-81-3, 20074-52-6, Ferric ion, biological studies Streptozocin 23214-92-8, Doxorubicin 33069-62-4, Taxol 33419-42-0, Daunorubicin 62683-29-8, 61912-98-9, Insulin-like growth factor Etoposide Colony-stimulating factor 83314-01-6, Bryostatin-1 83869-56-1, GM-CSF 127464-60-2, Vascular 95058-81-4, Gemcitabine 100286-90-6, CPT-11 endothelial growth factor 143011-72-7, G-CSF 192382-42-6, Histamine-succinyl-glycine 352423-07-5, Placenta growth factor -378784-45-3, 378784-41-9, Technetium-94m, biological studies 391267-27-9, IMP 241 Technetium-99m, biological studies TMP 245 RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease) 790794-23-9 790794-24-0 790794-20-6 790794-21-7 790794-22-8 RL: PRP (Properties) (unclaimed nucleotide sequence; polyvalent protein complexes including trivalent bispecific chimeric antibodies and conjugates for diagnosis and treatment of cancer, infection, cardiol. disorder and autoimmune disease)

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L96 ANSWER 3 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
ACCESSION NUMBER: 2004:902115 HCAPLUS
DOCUMENT NUMBER: 141:384388
TITLE: Morpholino imaging and therapy via amplification
```

IT

targeting

INVENTOR(S): Hnatowich, Donald J.; He, Jiang; Liu, Guozheng; Gupta,

Suresh; Zhang, Yumin; Rusckowski, Mary

PATENT ASSIGNEE(S): Immunomedics, Inc., USA SOURCE: PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE PATENT NO. APPLICATION NO. DATE ------------------_____ _____ 20041028 WO 2004-US11517 20040415 A2 WO 2004091525 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

AΒ

US 2003-462692P P 20030415

ED Entered STN: 28 Oct 2004

The present invention provides a kit and a method for targeting of a diagnostic or therapeutic agent to a target site in a mammal having a pathol. condition. The kit comprises, in sep. containers, (A) a first conjugate comprising a targeting moiety and a morpholino oligomer (MORF), wherein said targeting moiety selectively binds to a primary, target-specific binding site of the target site or to a substance produced by or associated with the target site; (B) optionally, a clearing agent; (C) a second conjugate comprising multiple copies of complementary morpholino oligomer (cMORF) and a diagnostic agent or therapeutic agent; wherein the CMORF is bound to a polymer; and (D) a third conjugate comprising a MORF and a radiolabel. The method for targeting of a diagnostic or therapeutic agent comprises administering (A), optionally (B), (C) and (D) to a mammal. For example, whole body images obtained simultaneously of three nude mice each bearing LS174T tumors were presented. The first animal received MORF-99mTc (3 h before imaging), the second one received MORF-99mTc and the cMORF-polymer (21 h before imaging), while the study animal (amplification) received the MORF-99mTc, cMORF-polymer, and the anti-CEA antibody (MN14)-MORF (51 h before imaging). The images show tumor only in the study animals receiving both the antibody and the polymer, providing evidence that in vivo amplification targeting is feasible and has been achieved.

IC ICM A61K

CC 63-8 (Pharmaceuticals)

Section cross-reference(s): 2, 8, 15

- ST morpholino oligomer conjugate diagnostic therapeutic targeting kit; antibody polymer morpholino oligomer conjugate targeting kit
- IT Antibodies and Immunoglobulins

RL: DGN (Diagnostic use); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(IgG1, MN14, conjugates with DTPA or morpholino oligomer, radiolabeled; kits for amplification targeting of diagnostic or therapeutic agent using morpholino oligomer conjugated to polymer)

IT Antibodies and Immunoglobulins

RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);

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USES (Uses)
        (fragments; kits for amplification targeting of diagnostic or
        therapeutic agent using morpholino oligomer conjugated to polymer)
     Antibodies and Immunoglobulins
IT
     RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (humanized; kits for amplification targeting of diagnostic or
        therapeutic agent using morpholino oligomer conjugated to polymer)
IT
     Antitumor agents
     Autoimmune disease
     Chelating agents
     Dves
     Fluorescent substances
     Human
     Immunomodulators
     Infection
     Inflammation
       Lymphoma
        (kits for amplification targeting of diagnostic or therapeutic agent
        using morpholino oligomer conjugated to polymer)
     Antibodies and Immunoglobulins
TT
     Cytokines
     Enzymes, biological studies
     Hormones, animal, biological studies

    Neurotransmitters

     Oligomers
     Oligonucleotides
     Peptides, biological studies
     Proteins
     Radionuclides, biological studies
     Steroids, biological studies
     Toxins
     Vitamins
     RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (kits for amplification targeting of diagnostic or therapeutic agent
        using morpholino oligomer conjugated to polymer)
IT
     Antiqens
     CD19 (antigen)
     CD22 (antigen)
     CD40 (antigen)
     Carcinoembryonic antigen
     Interleukin 15
     Interleukin 6
     Invariant chain (class II antigen)
     Prostate-specific antigen
       Tenascins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (targeting of; kits for amplification targeting of diagnostic or
        therapeutic agent using morpholino oligomer conjugated to polymer)
IT
     25104-18-1DP, Polylysine, conjugates with morpholino oligomers
     25104-18-1DP, Polylysine, succinylated, conjugates with morpholino
     oligomer, radiolabeled
                              38000-06-5DP, Polylysine, conjugates
     with morpholino oligomers
                                 38000-06-5DP, Polylysine, succinylated,
     conjugates with morpholino oligomer, radiolabeled
     616900-87-9DP, conjugates with antibody or DTPA,
                    616900-88-0DP, conjugates with succinylated
     radiolabeled
    polylysine, radiolabeled
     RL: DGN (Diagnostic use); PKT (Pharmacokinetics); SPN (Synthetic
    preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (kits for amplification targeting of diagnostic or therapeutic agent
```

Harris 10/008062

using morpholino oligomer conjugated to polymer)

67-43-6DP, DTPA, conjugates with antibody or morpholino oligomer, radiolabeled 66516-09-4DP, MAG 3, conjugates with morpholino oligomer, radiolabeled RL: DGN (Diagnostic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (kits for amplification targeting of diagnostic or therapeutic agent using morpholino oligomer conjugated to polymer)

L96 ANSWER 4 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4

ACCESSION NUMBER: 2004:606473 HCAPLUS

DOCUMENT NUMBER: 141:156960

TITLE: Methods for obtaining porphyrin derivatives, and use

thereof in radioimmunotherapy

INVENTOR(S): Boitrel, Bernard Philippe Albert

PATENT ASSIGNEE(S): Centre National De La Recherche Scientifique, Fr.;

Universite De Rennes 1 PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

SOURCE:

PATENT NO.				KIND DATE			APPLICATION NO.					DATE					
WO 2004063199			A1 20040729			WO 2003-FR3794						20031218					
W:	ΑE,	AG,	ΑL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
	GM,	HR,	HU,	ID,	IL,	IN,	ıs,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	
	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	
	UG,	US,	UΖ,	VN,	YU,	ZA,	ZM,	zw									
RW	: BW,	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	
	BY,	KG,	KZ,	MD,	RU,	ΤJ,	TM,	AT,	BE,	ВG,	CH,	CY,	CZ,	DE,	DK,	EE,	
	ËS,	FI,	FR,	GB,	GR,	ΗU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
	TR,	ΒF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG
FR 2849035				A1	A1 20040625			FR 2002-16371									
PRIORITY APPLN. INFO.:									FR 2002-16371					A 20021220			
	FR 2003-12341									A 20031022							

OTHER SOURCE(S): MARPAT 141:156960

ED Entered STN: 29 Jul 2004

GΙ

The invention concerns compds. I [wherein A forms a chain with C, called AB A-C chain, X-Y-C6H4-(CH2)n1-C(Z,W)-(CH2)n2-C6H4-Y-X-, then B forms a chain with D, said chain above, called A-C and B-D chains located independently of each other, above (position α) or below (position β) of the porphyrin macrocycle; or when A forms a chain with D, called A-D chain of above formula , then B forms a chain with C, called B-C chain of above formula, one of said A-D or B-C chains, being located above (position α) of the plane of the porphyrin macrocycle while the other A-D or B-C chain is located below (position β) of the porphyrin macrocycle; when X = NH, O, CO, CH2, Y = CO, CH2, NH, O, resp.; n1, n2 = 1 - 3; U = COC(Z,W), N(CHRaCO2Rb); Z = CN, NO2, CO2-, CH2NR1R2, SO3R3, SO2R3; R1, R2 =H, (un)branched C1-8-alkyl, cycloalkyl, aryl, alkylaryl; R3 = H, alkaline metal (especially, Na, K), NR4R5; R4, R5 = (un)branched C1-8-alkyl, cycloalkyl, p-nitroaryl; W = CO2-, CO2R6; R6 = H, (un)branched C1-8-alkyl, cycloalkyl, aryl, alc., p-nitrophenol; CZW = Meldrum's acid; Ra = R1, amino acid; Rb = R1; EF, GH = CH:CH, CH2CH2]. Thus, macrocycle $\alpha, \alpha, \beta, \beta-I$ [2-AC-2' = 2''-BD-2''' = 3-NHCOC6H4CH2C(CO2Et)2CH2C6H4CONH-3; EF = GH = CH:CH] was prepared from TAPP- α , α , β , β via N-acylation with 3-(ClCH2)C6H4COCl, followed by alkylation of CH2(CO2Et)2; the nickel and zinc salts of II were also prepared The invention also concerns complexes between said compds. and radioelements, and pharmaceutical compns. containing said complexes.

IC ICM C07D487-22

ICS A61K051-00; A61K049-00; A61K031-409; A61P035-00

CC 26-7 (Biomolecules and Their Synthetic Analogs) Section cross-reference(s): 1, 63

IT Lymphoma

Neoplasm

(medicinals; preparation of porphyrin derivs. and their complexes with radioelements for use in radioimmunotherapy)

IT Lymphoma

(non-Hodgkin's, medicinals; preparation of porphyrin derivs. and their complexes with radioelements for use in radioimmunotherapy)

IT Antigens

CD20 (antigen)

CD22 (antigen)

Epidermal growth factor receptors

Tenascins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (pathologies related to, medicinals for; preparation of porphyrin derivs. and their complexes with radioelements for use in radioimmunotherapy)

IT Antitumor agents

Immunoradiotherapy

(preparation of porphyrin derivs. and their complexes with radioelements for use in radioimmunotherapy)

L96 ANSWER 5 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5

ACCESSION NUMBER: 2004:565117 HCAPLUS

DOCUMENT NUMBER: 141:122334

TITLE: Immunotherapy of B cell malignancies and autoimmune

disease using unconjugated and conjugated antibodies, fragments or fusion proteins

INVENTOR(S): Goldenberg, David M.; Hansen, Hans

PATENT ASSIGNEE(S): Immunomedics, Inc., USA; Mccall, John Douglas

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

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                              20040715 WO 2003-GB5700
    WO 2004058298
                        A1
                                                                20031231
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,
            NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
            TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
            BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
            ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
            TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
    US 2004219156
                        A1
                              20041104
                                         US 2003-747199
                                                                20031230
PRIORITY APPLN. INFO.:
                                          US 2002-437145P
                                                             P 20021231
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ED Entered STN: 15 Jul 2004

The invention is directed to a method for treating a treating and diagnosing a B cell-related disease, T cell-related disease or an autoimmune disease in a mammal by concurrently or sequentially administering to the mammal a therapeutic composition that comprises a pharmaceutically acceptable vehicle and at least one conjugated antibody, wherein predosing with a non-radiolabeled antibody is not performed. The target antigen of the unconjugated and conjugated antibody is CD3, CD4, CD5, CD8, CD11c, CD14, CD15, CD19, CD20, CD21, CD22, CD23, CD25, CD33, CD37, CD38, CD40, CD40L, CD46, CD52, CD54, CD74, CD80, CD126, MUC1, tenascin, Ia, HMI.24, HLA-DR and tumor antigen. The antibody is human, murine, chimeric, primatized or humanized antibody. The antibody is conjugated with therapeutic agent selected from drug, toxin, immunomodulator, chelator, boron compound, photoactive agent or radionuclide.

IC ICM A61K039-00

ICS A61K041-00; A61K051-10; A61K039-395; A61P005-00; A61P037-06

CC 15-3 (Immunochemistry)

Section cross-reference(s): 9, 63

```
immunotherapy B cell malignancy autoimmune disease conjugate unconjugate
ST
     antibody
    Lymphoma
TT
        (B-cell; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
    Disease, animal
IT
        (B-lymphocyte, malignancy; unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
        disease)
     CD antigens
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD11C; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD126; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
IT
     CD antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD33; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
IT
     CD antiqens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD37; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
IT
     Glycoproteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD40-L (antigen CD40 ligand); unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
        disease)
IT
     CD antiqens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD52; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
IT
     Kidney, disease
        (Goodpasture's syndrome; unconjugated and conjugated antibodies
         fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
    Histocompatibility antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (HLA-DR; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (HMI.24; unconjugated and conjugated antibodies, fragments or
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antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
    Purpura (disease)
TT
        (Henoch-Schoenlein's; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Histocompatibility antigens
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (I-A; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
    Cell adhesion molecules
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (ICAM-1 (intercellular adhesion mol. 1); unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
        disease)
     Kidney, disease
IT
        (IgA nephropathy; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
     Immunoglobulin receptors
TT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (IgE type II; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Antibodies and Immunoglobulins
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (IqG; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
TT
     Proteins
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MCP (membrane cofactor protein); unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
        disease)
IT
    Mucins
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MUC1; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
IT
     Proteins
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (PAP (pokeweed antiviral protein); unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
        disease)
IT
     Stem cell factor
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (S1 factor; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
    Antigens
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10/008062 Harris RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (SSEA-1 (stage-specific embryonic antigen 1); unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Brain, disease (Sydenham's chorea; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Leukemia (T-cell; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Disease, animal (T-lymphocyte; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Lymphoproliferative disorders (Waldenstrom's macroglobulinemia; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Granulomatous disease (Wegener's granulomatosis; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Leukemia (acute lymphocytic; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Sulfonic acids, biological studies RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (alkanesulfonic, salts; unconjugated and conjugated antibodies fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease)

IT

Nervous system, disease IT

> (amyotrophic lateral sclerosis; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease)

IT Inflammation

IT

IT

. IT

IT

IT

TT

Spinal column, disease

(ankylosing spondylitis; unconjugated and conjugated antibodies fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease)

IT Cytotoxic agents

(antimetabolites; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease)

TT Artery, disease

Inflammation

(arteritis, Takayasu's; unconjugated and conjugated antibodies fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease)

IT Artery, disease

Inflammation

(arteritis, giant cell; unconjugated and conjugated antibodies fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease)

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IT
     Autoimmune disease
     Inflammation
     Thyroid gland, disease
        (autoimmune thyroiditis; unconjugated and conjugated antibodies
        , fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
TT
     Skin, disease
        (bullous pemphigoid; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
     Antibodies and Immunoglobulins
TT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (chimeric; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Leukemia
IT
        (chronic lymphocytic; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
     Infection
IT
        (chronic viral hepatitis; unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
        disease)
     Antibodies and Immunoglobulins
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (conjugates; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Toxins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (diphtheria; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     T cell (lymphocyte)
        (disease; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
TT
    Blood vessel
        (endothelium, antigen; unconjugated and conjugated antibodies
          fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Toxins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (enterotoxin A, Staphylococcal; unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
        disease)
TT
    Toxins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (enterotoxins, staphylococcal A; unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
        disease)
IT
    Toxins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
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(exotoxins, Pseudomonas; unconjugated and conjugated antibodies
         fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Lung, disease
IT
        (fibrosis; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
    Antibodies and Immunoglobulins
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (fragments; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
    Mycosis
        (fungoides; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Inflammation
    Kidney, disease
        (glomerulonephritis, rapidly progressive; unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
        disease)
IT
    Antibodies and Immunoglobulins
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (humanized; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Purpura (disease)
IT
        (idiopathic thrombocytopenic, acute and chronic; unconjugated and
        conjugated antibodies, fragments or antibody fusion
        proteins for immunotherapy and immunodiagnosis of B cell malignancies
        and autoimmune disease)
IT
    Drug delivery systems
        (immunoconjugates; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Diagnosis
IT
        (immunodiagnosis; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Drug delivery systems
TT
        (immunotoxins; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
TΤ
    Apoptosis
        (inducer; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Mitosis
IT
        (inhibitors; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Fluorescent substances
IT
        (label; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Heavy metals
TT
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (label; unconjugated and conjugated antibodies,
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fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) TΤ Inflammation Kidney, disease (lupus nephritis; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Inflammation IT Kidney, disease (membranous glomerulonephritis; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Antibodies and Immunoglobulins TT RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (monoclonal; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) IT Erythema (multiforme; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) IT Skin, neoplasm (mycosis fungoides; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Inflammation TT Kidney, disease (nephritis, post-streptococcal; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Erythema IT (nodosum; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) TT Lymphoma (non-Hodgkin's; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) TΤ Drug delivery systems (parenterals; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) IT Skin, disease (pemphigus vulgaris; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) Artery, disease IT Inflammation (periarteritis nodosa; unconjugated and conjugated antibodies fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) TT Anemia (disease) (pernicious anemia; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease) IT Chemicals (photoactive; unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease)

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Bone, disease
IT
     Inflammation
        (polychondritis; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
    Autoimmune disease
     Endocrine system, disease
        (polyglandular syndrome; unconjugated and conjugated antibodies
          fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Muscle, disease
TT
        (polymyalgia rheumatica; unconjugated and conjugated antibodies
          fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Myositis
TT
        (polymyositis; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Biliary tract, disease
IT
        (primary biliary cirrhosis; unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
        disease)
    Antibodies and Immunoglobulins
IT
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (primatized; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
    Fibrosis
IT
        (pulmonary; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Proteins
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (saporin; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Connective tissue, disease
        (scleroderma; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
    Corticosteroids, biological studies
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (suppressant; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
    Lupus erythematosus
        (systemic; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
TT
     Infection
    Nerve, disease
        (tabes dorsalis; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Thrombosis
        (thromboangiitis obliterans; unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
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disease)
IT
     Thyroid gland, disease
        (thyrotoxicosis; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
TT
     Heavy metals
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (toxicity, label; unconjugated and conjugated
        antibodies, fragments or antibody fusion proteins for
        immunotherapy and immunodiagnosis of B cell malignancies and autoimmune
        disease)
     Antigens
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (tumor-associated; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
TT
     Complement receptors
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (type 2; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
     Inflammation
IT
     Intestine, disease
        (ulcerative colitis; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Addison's disease
     Alkylating agents, biological
     Angiogenesis inhibitors
     Antibiotics
     Autoimmune disease
     Chelating agents
     Color formers
     Cytotoxic agents
     Dermatomyositis
     Diabetes mellitus
     Domestic animal
     Drug delivery systems
     Drugs
     Dyes
     Human
     Immunomodulators
     Immunotherapy
       Labels
       Lymphoma
     Mammalia
     Multiple myeloma
     Multiple sclerosis
     Myasthenia gravis
     Pet animal
     Photodynamic therapy
     Primates
     Pseudomonas
     Psoriasis
     Rheumatic fever
     Rheumatoid arthritis
     Rodentia
     Sarcoidosis
```

Sjogren's syndrome

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Veterinary medicine
        (unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
TΤ
     Abrins
     Alkaloids, biological studies
     Anthracyclines
       Antibodies and Immunoglobulins
     CD14 (antigen)
     CD19 (antigen)
     CD20 (antigen)
     CD22 (antigen)
     CD3 (antigen)
     CD38 (antigen)
     CD4 (antigen)
     CD40 (antigen)
     CD5 (antigen)
     CD8 (antigen)
     CD80 (antigen)
     Coordination compounds
     Cytokines
     Enzymes, biological studies
     Fusion proteins (chimeric proteins)
     Hemopoietins
     Interferons
     Interleukin 1
     Interleukin 10
     Interleukin 12
     Interleukin 18
     Interleukin 2
     Interleukin 3
     Interleukin 6
     Invariant chain (class II antigen)
     Lymphotoxin
     Peptides, biological studies
     Radionuclides, biological studies
     Ricins
       Tenascins
     Toxins
     Tumor necrosis factors
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
IT
     Endothelium
        (vascular, antigen; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Hepatitis
        (viral, chronic; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Interleukin 2 receptors
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU:
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (α chain; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Toxins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
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(\alpha-; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (\alpha; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Integrins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (\alpha X; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
IT
     Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (β; unconjugated and conjugated antibodies, fragments or
        antibody fusion proteins for immunotherapy and immunodiagnosis
        of B cell malignancies and autoimmune disease)
IT
     Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (\gamma; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
TT
     12586-31-1, Neutron
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (capture; unconjugated and conjugated antibodies, fragments
        or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
     329900-75-6, Cyclooxygenase 2
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (inhibitors; unconjugated and conjugated antibodies,
        fragments or antibody fusion proteins for immunotherapy and
        immunodiagnosis of B cell malignancies and autoimmune disease)
TΤ
     50-02-2, Dexamethasone
                             50-18-0, Cyclophosphamide
                                                         53-03-2, Prednisone
     55-86-7D, Nitrogen mustard, analogs 57-13-6D, Urea, substituted derivs.
     and analogs
                   57-22-7, Vincristine 58-05-9, Leucovorin
    Methotrexate
                   59-30-3D, Folic acid, derivs. and analogs
                                                                60-34-4D,
                                                          120-73-0D, Purine,
    Methylhydrazine, derivs. and analogs
                                          67-43-6, DTPA
     derivs. and analogs 151-56-4D, Ethylenimine, derivs. and analogs
     154-93-8, Carmustine 289-95-2D, Pyrimidine, derivs. and analogs
                              1605-68-1D, Taxane, derivs. and analogs
     671-16-9, Procarbazine
     4346-18-3, Phenyl butyrate
                                  4375-07-9, Epipodophyllotoxin
                                                                  7429-90-5D,
                          7439-94-3D, Lutetium, complexes
     Aluminum, complexes
                                                             7440-05-3D,
                           7440-06-4D, Platinum, coordination complexes and
     Palladium, complexes
     analogs
               7440-42-8D, Boron, compds.
                                            7440-55-3D, Gallium, complexes
     7440-66-6D, Zinc, complexes 7689-03-4D, Camptothecin, derivs. and
                                  9003-98-9, DNase I
               9001-99-4, RNase
                                                      9014-42-0,
                     10043-49-9, Gold-198, biological studies
     Thrombopoietin
                                                                 10043-66-0,
                                     10098-91-6, Yttrium-90, biological
     Iodine-131, biological studies
               11056-06-7, Bleomycin 11096-26-7, Erythropoietin
     studies
     13010-20-3D, Nitrosourea, derivs. and analogs
                                                     13967-65-2, Holmium-166,
                         13981-25-4, Copper-64, biological studies
    biological studies
     13981-38-9, Cobalt-58, biological studies 14119-09-6, Gallium-67,
     biological studies
                         14119-15-4, Molybdenum-99, biological studies
     14158-27-1, Strontium-89, biological studies
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                         14158-35-1, Iridium-194, biological studies
     14191-64-1, Praseodymium-142, biological studies
                                                      14265-71-5,
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Selenium-75, biological studies 14265-75-9, Lutetium-177, biological 14265-85-1, Actinium-225, biological studies 14378-26-8, Rhenium-188, biological studies 14391-11-8, Gold-199, biological studies 14391-19-6, Terbium-161, biological studies 14391-20-9, Holmium-161, biological studies 14391-32-3, Gadolinium-157, biological studies 14391-96-9, Scandium-47, biological studies 14596-12-4, Iron-59, 14596-37-3, Phosphorus-32, biological studies biological studies 14687-61-7, Arsenic-77, biological studies 14694-69-0, Iridium-192, 14798-12-0, Boron-10, biological studies biological studies 14835-02-0, Radon-219, biological studies 14913-49-6, Bismuth-212, biological studies 14913-89-4, biological studies 14914-68-2, Antimony-119, biological studies 14981-64-7, Palladium-109, biological 14981-79-4, Praseodymium-143, biological studies 15056-34-5D, 15092-94-1, Lead-212, biological studies Triazene, derivs. and analogs 15117-96-1, Uranium-235, biological studies 15229-37-5, Bismuth-211, biological studies 15623-45-7, Radium-223, biological studies 15706-52-2, Polonium-215, biological studies 15749-66-3, Phosphorus-33, biological studies 15750-15-9, Indium-111, biological studies 15750-24-0, Fermium-255, biological studies 15755-39-2, Astatine-211, 15756-41-9, Francium-221, biological studies biological studies 15757-86-5, Copper-67, biological studies 15760-04-0, Silver-111, biological studies 15765-31-8, Promethium-149, biological studies 15765-78-3, Rhenium-189, biological studies 15766-00-4, Samarium-153, 15776-20-2, Bismuth-213, biological studies biological studies 15816-77-0, Lead-211, biological studies 15840-13-8, Erbium-169, biological studies 15904-62-8, Dysprosium-152, biological studies 17239-90-6, Astatine-217, biological studies 23214-92-8D, Doxorubicin, derivs. and analogs 33069-62-4D, Taxol, derivs. and analogs 56491-86-2, NOTA 33419-42-0, Etoposide 60239-18-1, DOTA 60239-22-7, 62683-29-8, Colony stimulating factor 75037-46-6, Gelonin 83314-01-6, Bryostatin-1 83869-56-1, GM-CSF 127464-60-2, Vascular endothelial growth factor 138612-85-8, Platinum-109 143011-72-7, G-CSF 187888-07-9D, Endostatin, derivs. and analogs 352423-07-5, Placenta 378253-43-1, Bromine-80m, biological studies growth factor 378782-88-8, Osmium-189m, biological studies 378784-00-0, Rhodium-103m, 378784-45-3, Technetium-99m, biological studies biological studies RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (unconjugated and conjugated antibodies, fragments or antibody fusion proteins for immunotherapy and immunodiagnosis of B cell malignancies and autoimmune disease)

L96 ANSWER 6 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 6

ACCESSION NUMBER: 2004:934160 HCAPLUS

DOCUMENT NUMBER:

141:388650

TITLE:

Anti-CD74 immunoconjugates and their therapeutic and

diagnostic uses

INVENTOR(S):

Griffiths, Gary L.; Hansen, Hans J.; Goldenberg, David

M.; Lundberg, Bo B.

PATENT ASSIGNEE(S):

Immunomedics, Inc., USA

SOURCE:

U.S. Pat. Appl. Publ., 44 pp., Cont.-in-part of U.S.

Ser. No. 377,122. CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: '

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004219203	A1	20041104	US 2003-706852	20031112
US 6306393	B1	20011023	US 1999-307816	19990510

Page 62

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20020613
     US 2002071807
                         Α1
                                           US 2001-965796
                                                                   20011001
                                           US 2002-314330
     US 2003124058
                         A1
                                20030703
                                                                   20021209
     US 2003133930
                         A1
                                20030717
                                            US 2003-350096
                                                                   20030124
                                            US 2003-377122
     US 2004115193
                         A1
                                20040617
                                                                   20030303
     WO 2004110390
                         A2
                                20041223
                                            WO 2004-US19238
                                                                   20040617
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
PRIORITY APPLN. INFO.:
                                            US 1999-307816
                                                                A1 19990510
                                            US 2000-590284
                                                                A1 20000609
                                            US 2001-965796
                                                                A1 20011001
                                            US 2002-360259P
                                                                P 20020301
                                            US 2002-314330
                                                               A2 20021209
                                            US 2003-350096
                                                                A2 20030124
                                            US 2003-377122
                                                                A2 20030303
                                            US 2003-478830P
                                                               P 20030617
                                            US 1997-41506P
                                                                P 19970324
                                            US 1998-38995
                                                                A2 19980312
                                            US 1999-138284P
                                                                P 19990609
                                            US 2003-706852
                                                                A 20031112
ED
     Entered STN: 06 Nov 2004
     Disclosed are compns. that include anti-CD74 immunoconjugates and a
AB
     therapeutic and/or diagnostic agent. Also disclosed are methods for
     preparing the immunoconjugates and using the immunoconjugates in diagnostic
     and therapeutic procedures. The compns. may be part of a kit for
     administering the anti-CD74 immunoconjugates compns. in therapeutic and/or
     diagnostic methods. Anti-CD74 binding mols. are conjugated to the one or
     more lipids by one or more of a sulfide linkage, a hydrazone linkage, a
     hydrazine linkage, an ester linkage, an amido linkage, an amino linkage,
     an imino linkage, a thiosemicarbazone linkage, a semicarbazone linkage, an
     oxime linkage, a carbon-carbon linkage. Anti-CD74 immunoconjugates
     comprise a drug, a prodrug, a toxin, an enzyme, a radioisotope, an
```

- or a photodynamic agent.
 IC ICM A61K039-395
 ICS A61K009-127
- NCL 424450000; 424144100
- CC 1-6 (Pharmacology)
 - Section cross-reference(s): 8, 15
- IT Lymphoma

(B-cell, diagnosis and treatment of; anti-CD74 immunoconjugates and their therapeutic and diagnostic uses)

immunomodulator, a cytokine, a hormone, an antibody., an oligonucleotide,

IT CD antigens

RL: BSU (Biological study, unclassified); BIOL (Biological study) (CD33, antibody for; anti-CD74 immunoconjugates and their therapeutic and diagnostic uses)

IT Histocompatibility antigens

RL: BSU (Biological study, unclassified); BIOL (Biological study) (HLA-DR, antibody for; anti-CD74 immunoconjugates and their therapeutic and diagnostic uses)

IT Antibodies and Immunoglobulins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (IgG1, anti-CD74; anti-CD74 immunoconjugates and their therapeutic and diagnostic uses)

```
IT
    Antibodies and Immunoglobulins
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (IgG2, anti-CD74; anti-CD74 immunoconjugates and their therapeutic and
        diagnostic uses)
    Antibodies and Immunoglobulins
TT
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (IgG3, anti-CD74; anti-CD74 immunoconjugates and their therapeutic and
        diagnostic uses)
    Antibodies and Immunoglobulins
IT
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (IgG4, anti-CD74; anti-CD74 immunoconjugates and their therapeutic and
        diagnostic uses)
IT
    Lymphoma
        (T-cell, diagnosis and treatment of; anti-CD74 immunoconjugates and
        their therapeutic and diagnostic uses)
IT
        (anti=CD74 antibody; anti-CD74 immunoconjugates and their
        therapeutic and diagnostic uses)
IT
    Angiogenesis inhibitors
    Antitumor agents
     Cations
     Endoscopes
     Imaging agents
     Immunomodulators
       Immunoradiotherapy
     Photodynamic therapy
     Photosensitizers (pharmaceutical)
     Positron-emission tomography
     Test kits
     Tomography
    X-ray
        (anti-CD74 immunoconjugates and their therapeutic and diagnostic uses)
     Antibodies and Immunoglobulins
IT
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (chimeric, anti-CD74; anti-CD74 immunoconjugates and their therapeutic
        and diagnostic uses)
     Autoimmune disease
TΤ
     Carcinoma
       Hodgkin's disease
     Melanoma
     Multiple myeloma
     Neuroglia, neoplasm
     Ovary, neoplasm
     Prostate gland, neoplasm
     Sarcoma
     Transplant rejection
        (diagnosis and treatment of; anti-CD74 immunoconjugates and their
        therapeutic and diagnostic uses)
IT
     Antibodies and Immunoglobulins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (fragments, anti-CD74; anti-CD74 immunoconjugates and their therapeutic '
        and diagnostic uses)
IT
     Antibodies and Immunoglobulins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (fusion products, anti-CD74; anti-CD74 immunoconjugates and their
        therapeutic and diagnostic uses)
     Antibodies and Immunoglobulins
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (heavy chain, anti-CD74; anti-CD74 immunoconjugates and their
        therapeutic and diagnostic uses)
     Antibodies and Immunoglobulins
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
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(humanized, anti-CD74; anti-CD74 immunoconjugates and their therapeutic
        and diagnostic uses)
    CD14 (antigen)
TΤ
    CD19 (antigen)
    CD20 (antigen)
    CD22 (antigen)
    CD30 (antigen)
    CD38 (antigen)
    CD4 (antigen)
    CD40 (antigen)
    CD5 (antigen)
    CD8 (antigen)
    CD80 (antigen)
    Carcinoembryonic antigen
    Epidermal growth factor receptors
     Interleukin 6
      Tenascins
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (immunoconjugates binding to; anti-CD74 immunoconjugates and their
        therapeutic and diagnostic uses)
    Antibodies and Immunoglobulins
IT
    RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
    USES (Uses)
        (labeled; anti-CD74 immunoconjugates and their therapeutic
        and diagnostic uses)
IT
     Antibodies and Immunoglobulins
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (light chain, anti-CD74; anti-CD74 immunoconjugates and their
        therapeutic and diagnostic uses)
IT
    Antibodies and Immunoglobulins
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (monoclonal, anti-CD74; anti-CD74 immunoconjugates and their
        therapeutic and diagnostic uses)
IT
    Lymphoma
        (non-Hodgkin's, diagnosis and treatment of; anti-CD74 immunoconjugates
        and their therapeutic and diagnostic uses)
     Antibodies and Immunoglobulins
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (single chain, anti-CD74; anti-CD74 immunoconjugates and their
        therapeutic and diagnostic uses)
     27928-00-3
                  66106-91-0
TT
     RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (labeled antibody; anti-CD74 immunoconjugates and
        their therapeutic and diagnostic uses)
L96 ANSWER 7 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 7
ACCESSION NUMBER: 2004:2624 HCAPLUS
DOCUMENT NUMBER:
                        140:55677
TITLE:
                        Anti-tenascin antibody fragments
                         and minibodies for treatment of lymphoma
INVENTOR(S):
                         Bigner, Darrell; Zalutsky, Michael; Kuan, Chien-Tsun
PATENT ASSIGNEE(S):
                         Duke University, USA
SOURCE:
                         PCT Int. Appl., 31 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO.
                                          APPLICATION NO.
                        KIND DATE
                                                                 DATE
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20031231
                                            WO 2003-US19268
     WO 2004000216
                          A2
                                                                    20030619
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,
             TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                            US 2002-390864P
                                                                 P 20020621
ED
     Entered STN: 02 Jan 2004
     The authors disclose treatment of lymphoma comprising administering
AB
     antibody fragments, minibodies, or mixts. thereof that bind to tenascin in
     a therapeutically effective amount Preferably the antibody fragment is a
     fragment of monoclonal antibody 81C6 or an antibody that binds to the
     epitope bound by monoclonal antibody 81C6. Preferably the antibody
     fragment is labeled with or conjugated to a chemotherapeutic agent,
     particularly a radioisotope such as 131I.
TC
     ICM A61K
     8-7 (Radiation Biochemistry)
CC
     Section cross-reference(s): 1, 14, 15
     tenascin antibody fragment minibody lymphoma
ST
     radioimmunotherpy
IT
     Antitumor agents
       (anti-tenascin antibody fragments and minibodies)
IT
     Hodgkin's disease
        (anti-tenascin antibody fragments and minibodies
        for treatment of)
IT
     Aves
     Human
     Mammalia
        (anti-tenascin antibody fragments and minibodies
        for treatment of lymphoma)
TT
     Antibodies and Immunoglobulins
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (fragments, F(ab')2, labeled; to tenascin for
        treatment of lymphoma)
IT
     Antibodies and Immunoglobulins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (monoclonal, 81C6; treatment of lymphoma with fragments and
        minibodies generated from)
IT
        (non-Hodgkin's; anti-tenascin antibody fragments
        and minibodies for treatment of)
IT
     Antibodies and Immunoglobulins
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (single chain, labeled; to tenascin for treatment
        of lymphoma)
TТ
     Drug resistance
        (treatment of lymphoma with anti-tenascin antibody
        fragments and minibodies in relation to)
IT
     Radionuclides, biological studies
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (treatment of lymphoma with anti-tenascin antibody
        fragments and minibodies labeled with)
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (treatment of lymphoma with antibody fragments and minibodies
IT
     Immunoradiotherapy
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(with labeled anti-tenascin antibody fragments and minibodies) 10043-66-0D, Iodine-131, anti-tenascin antibody TT fragments and minibodies labeled with, biological studies 10098-91-6D, Yttrium-90, anti-tenascin antibody fragments and minibodies labeled with, biological studies 14378-26-8D, Rhenium-188, anti-tenascin antibody fragments and minibodies labeled with, biological studies 14913-49-6D, Bismuth-212, anti-tenascin antibody fragments and minibodies labeled with, biological studies 14998-63-1D, Rhenium-186, anti-tenascin antibody

fragments and minibodies labeled with, biological studies 15092-94-1D, Lead-212, anti-tenascin antibody

fragments and minibodies labeled with, biological studies 15755-39-2D, Astatine-211, anti-tenascin antibody fragments and minibodies labeled with, biological studies

15757-86-5D, Copper-67, anti-tenascin antibody fragments and minibodies labeled with, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (for treatment of lymphoma)

53-03-2, Prednisone 57-22-7, Vincristine 50-18-0, Cyclophosphamide 23214-92-8, Doxorubicin 174722-31-7, Rituximab

RL: BSU (Biological study, unclassified); BIOL (Biological study) (treatment of lymphoma with anti-tenascin antibody fragments and minibodies in relation to resistance to)

L96 ANSWER 8 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 8

ACCESSION NUMBER: 2003:719519 HCAPLUS

DOCUMENT NUMBER:

139:259963

TITLE:

TT

Anti-CD74 antibodies and conjugates for

diagnosis and treatment of immune and autoimmune

diseases, infections and cancers

INVENTOR(S):

Hansen, Hans; Leung, Shui-on; Qu, Zhengxing;

Goldenberg, David M.

PATENT ASSIGNEE(S):

Immunomedics, Inc., USA; McCall, John Douglas

SOURCE: PCT Int. Appl., 91 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.					KIND DATE			APPLICATION NO.						DATE			
WO 2003074567				A2 20030912			WO 2003-GB890						20030303				
WO 2003074567			A 3		2003	1231											
W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	OM,	PH,	
	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	
	UA,	UG,	UΖ,	VC,	VN,	ΥU,	ZA,	ZM,	ZW								
RW:	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,	
	KG,	KΖ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,	
	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	
2478	012			AA		2003	0912		CA 2	003-	2478	012		2	0030	303	
1483	294			A2		2004	1208	:	EP 2	003-	7434	21		2	0030	303	
R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
	ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK		
PRIORITY APPLN. INFO.: US 2002-360259P P 200							0020	301									
								1	WO 2	003-0	GB89	0	1	W 2	0030	303	
	RW: RW: A 2478 P 1483 R:	D 20030745 D 20030745 W: AE, CO, GM, LS, PL, UA, RW: GH, KG, FI, BF, A 2478012 P 1483294 R: AT, IE,	D 2003074567 W: AE, AG, CO, CR, GM, HR, LS, LT, PL, PT, UA, UG, RW: GH, GM, KG, KZ, FI, FR, BF, BJ, A 2478012 P 1483294 R: AT, BE, IE, SI,	D 2003074567 D 2003074567 W: AE, AG, AL, CO, CR, CU, GM, HR, HU, LS, LT, LU, PL, PT, RO, UA, UG, UZ, RW: GH, GM, KE, KG, KZ, MD, FI, FR, GB, BF, BJ, CF, A 2478012 D 1483294 R: AT, BE, CH, IE, SI, LT,	D 2003074567 A2 D 2003074567 A3 W: AE, AG, AL, AM, CO, CR, CU, CZ, GM, HR, HU, ID, LS, LT, LU, LV, PL, PT, RO, RU, UA, UG, UZ, VC, RW: GH, GM, KE, LS, KG, KZ, MD, RU, FI, FR, GB, GR, BF, BJ, CF, CG, A 2478012 AA P 1483294 A2 R: AT, BE, CH, DE, IE, SI, LT, LV,	D 2003074567 A2 D 2003074567 A3 W: AE, AG, AL, AM, AT, CO, CR, CU, CZ, DE, GM, HR, HU, ID, IL, LS, LT, LU, LV, MA, PL, PT, RO, RU, SC, UA, UG, UZ, VC, VN, RW: GH, GM, KE, LS, MW, KG, KZ, MD, RU, TJ, FI, FR, GB, GR, HU, BF, BJ, CF, CG, CI, A 2478012 AA D 1483294 A2 R: AT, BE, CH, DE, DK, IE, SI, LT, LV, FI,	D 2003074567 A2 2003 W: AE, AG, AL, AM, AT, AU, CO, CR, CU, CZ, DE, DK, GM, HR, HU, ID, IL, IN, LS, LT, LU, LV, MA, MD, PL, PT, RO, RU, SC, SD, UA, UG, UZ, VC, VN, YU, RW: GH, GM, KE, LS, MW, MZ, KG, KZ, MD, RU, TJ, TM, FI, FR, GB, GR, HU, IE, BF, BJ, CF, CG, CI, CM, A 2478012 AA 2003 R: AT, BE, CH, DE, DK, ES, IE, SI, LT, LV, FI, RO,	D 2003074567 A2 20030912 W: AE, AG, AL, AM, AT, AU, AZ, CO, CR, CU, CZ, DE, DK, DM, GM, HR, HU, ID, IL, IN, IS, LS, LT, LU, LV, MA, MD, MG, PL, PT, RO, RU, SC, SD, SE, UA, UG, UZ, VC, VN, YU, ZA, RW: GH, GM, KE, LS, MW, MZ, SD, KG, KZ, MD, RU, TJ, TM, AT, FI, FR, GB, GR, HU, IE, IT, BF, BJ, CF, CG, CI, CM, GA, A 2478012 AA 20030912 P 1483294 A2 20041208 R: AT, BE, CH, DE, DK, ES, FR, IE, SI, LT, LV, FI, RO, MK,	D 2003074567 A2 20030912 W: AE, AG, AL, AM, AT, AU, AZ, BA, CO, CR, CU, CZ, DE, DK, DM, DZ, GM, HR, HU, ID, IL, IN, IS, JP, LS, LT, LU, LV, MA, MD, MG, MK, PL, PT, RO, RU, SC, SD, SE, SG, UA, UG, UZ, VC, VN, YU, ZA, ZM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, KG, KZ, MD, RU, TJ, TM, AT, BE, FI, FR, GB, GR, HU, IE, IT, LU, BF, BJ, CF, CG, CI, CM, GA, GN, A 2478012 P 1483294 A2 20041208 R: AT, BE, CH, DE, DK, ES, FR, GB, IE, SI, LT, LV, FI, RO, MK, CY, TY APPLN. INFO.:	D 2003074567 A2 20030912 WO 20 D 2003074567 A3 20031231 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, GM, HR, HU, ID, IL, IN, IS, JP, KE, LS, LT, LU, LV, MA, MD, MG, MK, MN, PL, PT, RO, RU, SC, SD, SE, SG, SK, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, FI, FR, GB, GR, HU, IE, IT, LU, MC, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, A 2478012 AA 20030912 CA 20 P 1483294 A2 20041208 EP 20 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, SI, LT, LV, FI, RO, MK, CY, AL, TY APPLN. INFO.:	D 2003074567 A2 20030912 WO 2003-0 D 2003074567 A3 20031231 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, A 2478012 A2 20041208 EP 2003-12 CA 2003-13 CA 20041208 EP 2003-1483294 A2 20041208 EP 2003-15 CA 2002-15 CA 2004-15 CA 2002-15 CA 2	D 2003074567 A2 20030912 WO 2003-GB896 D 2003074567 A3 20031231 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, A 2478012 A2 20041208 EP 2003-7434: P 1483294 A2 20041208 EP 2003-7434: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, TY APPLN. INFO.:	D 2003074567 A2 20030912 WO 2003-GB890 D 2003074567 A3 20031231 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, A 2478012 A2 20041208 EP 2003-743421 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, TY APPLN. INFO.: US 2002-360259P	D 2003074567 A2 20030912 WO 2003-GB890 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, A 2478012 A2 20041208 EP 2003-743421 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, TY APPLN. INFO.: US 2002-360259P	D 2003074567 A2 20030912 WO 2003-GB890 20 D 2003074567 A3 20031231 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, A 2478012 A2 20041208 EP 2003-743421 20 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, TY APPLN. INFO.: US 2002-360259P P 20	D 2003074567 A2 20030912 WO 2003-GB890 200303 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, A 2478012 A2 20041208 EP 2003-743421 2003050 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK	

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Entered STN: 14 Sep 2003
ED
     The present invention provides humanized, chimeric and human anti-CD74
AB
     antibodies, CD74 antibody fusion proteins, immunoconjugates, vaccines and
     bispecific that bind to CD74, the major histocompatibility complex (MHC)
     class-II invariant chain, Ii, which is useful for the treatment and
     diagnosis of B-cell disorders, such as B-cell malignancies, other
     malignancies in which the cells are reactive with CD74, and autoimmune
     diseases, and methods of treatment and diagnosis.
     ICM C07K016-28
TC
     ICS A61K039-395; A61P035-02; G01N033-574
     15-3 (Immunochemistry)
CC
     Section cross-reference(s): 1, 3, 9, 63
     CD74 antibody conjugate vaccine immune autoimmune disease
ST
     infection cancer
TΤ
     Interleukins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (21; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (B cell lineage; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
TT
     Leukemia
       Lymphoma
        (B-cell; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
IT
     Disease, animal
        (B-lymphocyte, malignancy; anti-CD74 antibodies and
        conjugates for diagnosis and treatment of immune and autoimmune
        diseases, infections and cancers)
IT
     Antiqens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD126; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     CD antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD33; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     CD antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD37; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Glycoproteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD40-L (antigen CD40 ligand); anti-CD74 antibodies and
        conjugates for diagnosis and treatment of immune and autoimmune
        diseases, infections and cancers)
IT
     CD antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD52; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Genetic vectors
        (GS; anti-CD74 antibodies and conjugates for diagnosis and
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treatment of immune and autoimmune diseases, infections and cancers)
     Histocompatibility antigens
TT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (HLA-DR; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
     Antigens
TT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (HM1.24; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
     Histocompatibility antigens
TT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (I-A; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
     Cell adhesion molecules
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (ICAM-1 (intercellular adhesion mol. 1); anti-CD74 antibodies
        and conjugates for diagnosis and treatment of immune and autoimmune
        diseases, infections and cancers)
     Immunoglobulin receptors
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (IgE type II; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
     Antibodies and Immunoglobulins
IT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (IgG1; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
     Antibodies and Immunoglobulins
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (IgG2a; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Antibodies and Immunoglobulins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (IgG3; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
     Antibodies and Immunoglobulins
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (IgG4; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
TT
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (IqG; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Proteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MCP (membrane cofactor protein); anti-CD74 antibodies and
        conjugates for diagnosis and treatment of immune and autoimmune
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diseases, infections and cancers)
IT
    Histocompatibility antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MHC (major histocompatibility complex), class I; anti-CD74
        antibodies and conjugates for diagnosis and treatment of immune
        and autoimmune diseases, infections and cancers)
TT
    Histocompatibility antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MHC (major histocompatibility complex), class II; anti-CD74
        antibodies and conjugates for diagnosis and treatment of immune
        and autoimmune diseases, infections and cancers)
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MUC1; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Imaging
        (NMR; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Animal cell line
        (Raji; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (SSEA-1 (stage-specific embryonic antigen 1); anti-CD74
        antibodies and conjugates for diagnosis and treatment of immune
        and autoimmune diseases, infections and cancers)
IT
    Leukemia
       Lymphoma
        (T-cell; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
IT
    Disease, animal
        (T-lymphocyte, malignancy; anti-CD74 antibodies and
        conjugates for diagnosis and treatment of immune and autoimmune
        diseases, infections and cancers)
IT
        (acute lymphocytic; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
IT
    Diagnosis
        (agents, immunoconjugates; anti-CD74 antibodies and
        conjugates for diagnosis and treatment of immune and autoimmune
        diseases, infections and cancers)
    Animal tissue culture
    Antigen-presenting cell
    Antiserums
    Antitumor agents
    Autoimmune disease
    Blood
    Body fluid
    Capra
    Carcinoma
    Cytotoxic agents
    DNA sequences
    Epitopes
    Eubacteria
    Genetic vectors
      Hodgkin's disease
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Human
     Immunomodulators
     Immunotherapy
     Infection
       Labels
     Leukemia
     Lymphocyte
       Lymphoma
     Melanoma
     Molecular cloning
     Multiple myeloma
     Mus
     Neoplasm
     Pathogen
     Positron-emission tomography
     Protein sequences
     Rodentia
     Sarcoma
     Transplant rejection
     Tumor markers
     Vaccines
     Yeast
        (anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Antibodies and Immunoglobulins
       Antibodies and Immunoglobulins
     Fusion proteins (chimeric proteins)
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Antisense oligonucleotides
     CD14 (antigen)
     CD19 (antigen)
     CD20 (antigen)
     CD22 (antigen)
     CD30 (antigen)
     CD38 (antigen)
     CD4 (antigen)
     CD40 (antigen)
     CD5 (antigen)
     CD8 (antigen)
     CD80 (antigen)
     CD80 (antigen)
     Cytokines
     Enzymes, biological studies
     Hemopoietins
     Hormones, animal, biological studies
     Interferons
     Interleukin 1
     Interleukin 10
     Interleukin 12
     Interleukin 18
     Interleukin 2
     Interleukin 3
     Interleukin 6
     Interleukins
     Invariant chain (class II antigen)
     Invariant chain (class II antigen)
     Lymphotoxin
     Radionuclides, biological studies
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Stem cell factor
       Tenascins
     Toxins
     cDNA
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (bispecific; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
IT
     Diagnosis
        (cancer; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
     Intestine, neoplasm
IT
     Lung, neoplasm
     Stomach, neoplasm
        (carcinoma; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
TT
     Drug delivery systems
        (carriers; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
     Multiple myeloma
IT
        (cell; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Leukemia
        (chronic lymphocytic; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
     T cell (lymphocyte)
IT
        (disease, malignancy; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
IT
     Immunity
        (disorder; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
     Antibodies and Immunoglobulins
TT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (fragments; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
TT
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (fusion products; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
TT
     Liposomes
        (gas-filled; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
```

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IT
     Carcinoma
        (gastric; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
IT
     Transplant and Transplantation
        (graft-vs.-host reaction; anti-CD74 antibodies and conjugates
        for diagnosis and treatment of immune and autoimmune diseases,
        infections and cancers)
     Antibodies and Immunoglobulins
IT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (heavy chain; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
     Antibodies and Immunoglobulins
IT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (humanized; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
IT
     Drug delivery systems
     Drugs
        (immunoconjugates; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
TT
     Diagnosis
        (immunodiagnosis; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
     Scintigraphy
IT
        (immunoscintigraphy, radio; anti-CD74 antibodies and
        conjugates for diagnosis and treatment of immune and autoimmune
        diseases, infections and cancers)
IT
     Drug delivery systems
        (immunotoxins; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
TT
     Parasite
        (infection; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
IT
     Biomarkers (biological responses)
        (inflammatory cell; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
TT
     Drug delivery systems
        (injections, i.m.; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
IT
     Drug delivery systems
        (injections, i.v.; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
TT
     Biological transport
        (internalization; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
TT
     Carcinoma
        (intestinal; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
```

and cancers) IT Antibodies and Immunoglobulins RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (light chain; anti-CD74 antibodies and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers) TT B cell (lymphocyte) (lineage antigen; anti-CD74 antibodies and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers) Drug delivery systems IT (liposomes, gas-filled; anti-CD74 antibodies and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers) Animal cell TT (mammalian; anti-CD74 antibodies and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers) Inflammation TΤ (marker; anti-CD74 antibodies and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers) Antibodies and Immunoglobulins IT RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (monoclonal; anti-CD74 antibodies and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers) Antibodies and Immunoglobulins TТ RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified)
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(multi-specific; anti-CD74 antibodies and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers)

IT Lymphoma

(non-Hodgkin's; anti-CD74 **antibodies** and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers)

IT Genetic vectors

(pdHL2; anti-CD74 antibodies and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers)

IT Carcinoma

(pulmonary; anti-CD74 antibodies and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers)

IT Kidney, neoplasm

(renal cell carcinoma; anti-CD74 **antibodies** and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers)

IT Carcinoma

(renal cell; anti-CD74 antibodies and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers)

IT Acoustic devices

(scanning; anti-CD74 antibodies and conjugates for diagnosis and treatment of immune and autoimmune diseases, infections and cancers)

IT Mutagenesis

```
(site-directed, substitution; anti-CD74 antibodies and
        conjugates for diagnosis and treatment of immune and autoimmune
        diseases, infections and cancers)
IT
     Neoplasm
        (solid; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
     Vaccines
        (tumor; anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
     Complement receptors
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (type 2; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
     Antitumor agents
IT
        (vaccines; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
     Interleukin 2 receptors
IT
     Interleukin 2 receptors
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (\alpha chain; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
TΤ
     Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (\alpha; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
TT
     Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (β; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
TТ
     Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (\gamma; anti-CD74 antibodies and conjugates for diagnosis
        and treatment of immune and autoimmune diseases, infections and
        cancers)
     600427-07-4P
                    600427-08-5P
                                   600427-09-6P
TT
                                                   600427-10-9P
                                                                  600427-11-0P
     600427-12-1P
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (amino acid sequence; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
     313064-51-6P
                    600164-70-3P
                                   600164-71-4P
TΤ
                                                   600164-72-5P
                                                                  600164-73-6P
     600164-74-7P
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
                                 11096-26-7, Erythropoietin
IT
     9014-42-0, Thrombopoietin
                                                              62683-29-8,
     Colony-stimulating factor
                                 83869-56-1, GM-CSF
                                                      143011-72-7, G-CSF
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
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(Therapeutic use); BIOL (Biological study); USES (Uses)
        (anti-CD74 antibodies and conjugates for diagnosis and
        treatment of immune and autoimmune diseases, infections and cancers)
IT
                     600427-02-9P
                                     600427-03-0P
                                                   600427-04-1P
     600427-01-8P
                                                                    600427-05-2P
     600427-06-3P
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (nucleotide sequence; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
IT
     600427-31-4
                   600427-32-5 600427-33-6
                                                 600427-34-7
                                                                600427-35-8
     600427-36-9 600427-37-0 600427-38-1
                                                 600427-39-2
                                                               600427-40-5
                   600427-42-7 600427-43-8
     600427-41-6
                                                 600427-44-9
                                                                600427-45-0
     600427-46-1
     RL: PRP (Properties)
         (unclaimed sequence; anti-CD74 antibodies and conjugates for
        diagnosis and treatment of immune and autoimmune diseases, infections
        and cancers)
L96 ANSWER 9 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 9
ACCESSION NUMBER:
                          2003:656808 HCAPLUS
                          139:196278
DOCUMENT NUMBER:
                          Anti-CD20 antibodies and fusion proteins for
TITLE:
                          diagnosis and treatment of B cell disease, B cell
                          malignancy and autoimmune diseases
                          Hansen, Hans; Qu, Zhengxing; Goldenberg, David M.
INVENTOR(S):
                          Immunomedics, Inc., USA; McCall, John Douglas
PATENT ASSIGNEE(S):
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                          PCT Int. Appl., 106 pp.
                          CODEN: PIXXD2
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                          Patent
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     PATENT NO.
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                                             APPLICATION NO.
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     WO 2003068821
                          A2
                                 20030821
                                             WO 2003-GB665
                                                                       20030214
     WO 2003068821
                          A3
                                 20050120
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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                                            CA 2003-2476166
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     US 2003219433
                                              US 2003-366709
                           Α1
                                 20031127
                                                                       20030214
PRIORITY APPLN. INFO.:
                                                                   P 20020214
                                              US 2002-356132P
                                                                   P 20021007
                                              US 2002-416232P
                                                                   W 20030214
                                              WO 2003-GB665
ED
     Entered STN: 22 Aug 2003
AB
     The present invention provides humanized, chimeric and human anti-CD20
     antibodies and CD20 antibody fusion proteins that bind to a human B cell marker, referred to as CD20, which is useful for the treatment and
     diagnosis of B-cell disorders, such as B-cell malignancies and autoimmune
     diseases, and methods of treatment and diagnosis.
IC
     ICM C07K016-28
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ICS A61K039-395; C12N015-13; C12N005-10; G01N033-53

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CC
     15-3 (Immunochemistry)
     Section cross-reference(s): 1, 3, 8, 9, 63
     humanized chimeric monoclonal antibody human CD20 B cell
ST
     disorder
IT
     Interleukins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (21; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
    Leukemia
IT
       Lymphoma
        (B-cell; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
     Disease, animal
IT
        (B-lymphocyte; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
     Antigens
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD126; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
TT
     CD antiqens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD33; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
IT
     CD antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD37; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
TΤ
     Glycoproteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD40-L (antigen CD40 ligand); humanized or chimeric monoclonal
        anti-CD20 antibodies and conjugates for diagnosis and
        treatment of B cell disease, B cell malignancy and autoimmune diseases)
TΤ
     CD antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD52; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
IT
     Genetic vectors
        (GS; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
IT
     Histocompatibility antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (HLA-DR; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
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(HM1.24; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
     Cell adhesion molecules
ΙŢ
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (ICAM-1 (intercellular adhesion mol. 1); humanized or chimeric
        monoclonal anti-CD20 antibodies and conjugates for diagnosis
        and treatment of B cell disease, B cell malignancy and autoimmune
        diseases)
IT
     Histocompatibility antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (Ia (H-2 I-region-associated); humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
     Immunoglobulin receptors
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (IgE type II; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (IqG1; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
     Antibodies and Immunoglobulins
IT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (IgG; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
IT
     Proteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MCP (membrane cofactor protein); humanized or chimeric monoclonal
        anti-CD20 antibodies and conjugates for diagnosis and
        treatment of B cell disease, B cell malignancy and autoimmune diseases)
TT
     Mucins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MUC1; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
IT
     Proteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (PAP (pokeweed antiviral protein); humanized or chimeric monoclonal
        anti-CD20 antibodies and conjugates for diagnosis and
        treatment of B cell disease, B cell malignancy and autoimmune diseases)
IT
     Growth factors, animal
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (S1 factor; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
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IT

IT

IT

IT

IT

TT

TT

IT

IT

IT

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(Therapeutic use); BIOL (Biological study); USES (Uses)
   (SSEA-1 (stage-specific embryonic antigen 1); humanized or chimeric
   monoclonal anti-CD20 antibodies and conjugates for diagnosis
   and treatment of B cell disease, B cell malignancy and autoimmune
   diseases)
Diagnosis
   (agents; humanized or chimeric monoclonal anti-CD20 antibodies
   and conjugates for diagnosis and treatment of B cell disease, B cell
   malignancy and autoimmune diseases)
Sulfonic acids, biological studies
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (alkanesulfonic, salts; humanized or chimeric monoclonal anti-CD20
   antibodies and conjugates for diagnosis and treatment of B cell
   disease, B cell malignancy and autoimmune diseases)
Cytotoxic agents
   (antimetabolites; humanized or chimeric monoclonal anti-CD20
   antibodies and conjugates for diagnosis and treatment of B cell
   disease, B cell malignancy and autoimmune diseases)
Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (bispecific; humanized or chimeric monoclonal anti-CD20
   antibodies and conjugates for diagnosis and treatment of B cell
   disease, B cell malignancy and autoimmune diseases)
Abrins
Ricins
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (conjugates; humanized or chimeric monoclonal anti-CD20
   antibodies and conjugates for diagnosis and treatment of B cell
   disease, B cell malignancy and autoimmune diseases)
Imaging agents
   (contrast; humanized or chimeric monoclonal anti-CD20
   antibodies and conjugates for diagnosis and treatment of B cell
   disease, B cell malignancy and autoimmune diseases)
Toxins
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (diphtheria, conjugates; humanized or chimeric monoclonal anti-CD20
   antibodies and conjugates for diagnosis and treatment of B cell
   disease, B cell malignancy and autoimmune diseases)
Toxins
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (diphtheria; humanized or chimeric monoclonal anti-CD20
   antibodies and conjugates for diagnosis and treatment of B cell
   disease, B cell malignancy and autoimmune diseases)
Toxins
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (endotoxins, Pseudomonas; humanized or chimeric monoclonal anti-CD20
   antibodies and conjugates for diagnosis and treatment of B cell
   disease, B cell malignancy and autoimmune diseases)
Toxins
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (enterotoxin A, Staphylococcal; humanized or chimeric monoclonal
   anti-CD20 antibodies and conjugates for diagnosis and
   treatment of B cell disease, B cell malignancy and autoimmune diseases)
Toxins
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
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(Therapeutic use); BIOL (Biological study); USES (Uses)
        (enterotoxins, staphylococcal A; humanized or chimeric monoclonal
        anti-CD20 antibodies and conjugates for diagnosis and
        treatment of B cell disease, B cell malignancy and autoimmune diseases)
IT
     Toxins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (exotoxins, Pseudomonas; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
     Antibodies and Immunoglobulins
IT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (fragments; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
TΤ
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (fusion products; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
     Antibodies and Immunoglobulins
TT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (heavy chain; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
     Alkylating agents, biological
TT
     Angiogenesis inhibitors
     Antibiotics
     Autoimmune disease
     B cell (lymphocyte)
     Biomarkers (biological responses)
     Canis familiaris
     Color formers
     Cytotoxic agents
     DNA sequences
     Domestic animal
     Drug delivery systems
     Drugs
     Dyes
     Epitopes
     Felis catus
     Genetic vectors
     Human
     Imaging agents
     Immunomodulators
     Immunotherapy
       Labels
     Lymphocyte
       Lymphoma
     Mammalia
     Molecular cloning
     Multiple myeloma
     Mus
     Myasthenia gravis
     Protein sequences
     Pseudomonas
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Rodentia
     Transplant rejection
     cDNA sequences
        (humanized or chimeric monoclonal anti-CD20 antibodies and
        conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
     Antibodies and Immunoglobulins
IT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (humanized or chimeric monoclonal anti-CD20 antibodies and
        conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
TT
     Abrins
     Alkaloids, biological studies
     Anthracyclines
     Antisense oligonucleotides
     CD14 (antigen)
     CD19 (antigen)
     CD20 (antigen)
     CD22 (antigen)
     CD38 (antigen)
     CD4 (antigen)
     CD40 (antigen)
     CD5 (antigen)
     CD8 (antigen)
     CD80 (antigen)
     CD80 (antigen)
     Cytokines
     Enzymes, biological studies
     Fusion proteins (chimeric proteins)
     Hemopoietins
     Hormones, animal, biological studies
     Interferons
     Interleukin 1
     Interleukin 10
     Interleukin 12
     Interleukin 18
     Interleukin 2
     Interleukin 3
     Interleukin 6
     Interleukins
     Invariant chain (class II antigen)
     Lymphotoxin
     Oligonucleotides
     Radionuclides, biological studies
     Ricins
     Stem cell factor
       Tenascins
     Toxins
     Transforming proteins
     Tumor necrosis factors
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (humanized or chimeric monoclonal anti-CD20 antibodies and
        conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
     Antibodies and Immunoglobulins
TT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (humanized; humanized or chimeric monoclonal anti-CD20
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antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
     Purpura (disease)
        (idiopathic thrombocytopenic, chronic; humanized or chimeric monoclonal
        anti-CD20 antibodies and conjugates for diagnosis and
        treatment of B cell disease, B cell malignancy and autoimmune diseases)
TΤ
     Drug delivery systems
        (immunoconjugates; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
     Diagnosis
        (immunodiagnosis; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
     Drug delivery systems
IT
        (immunotoxins; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
     Apoptosis
     Mitosis
        (inhibitors; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
     Paramagnetic materials
IT
        (ion; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
TT
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (light chain; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
TT
     Animal cell
        (mammalian; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT.
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (monoclonal; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
        (non-Hodgkin's; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
    Metals, biological studies
IT
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (non-radioactive; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
TT
    Gene, animal
    Gene, microbial
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (oncogene; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
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IT
     Genetic vectors
        (pdHL2; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
IT
     Chemicals
        (photoactive; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
     Rheumatoid arthritis
        (progressive; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
     Proteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (saporin; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
     Proteins
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (saporins, conjugates; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
     Corticosteroids, biological studies
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (suppressant; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
     Complement receptors
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (type 2; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
     Alkaloids, biological studies
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (vinca; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
     Interleukin 2 receptors
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (\alpha chain; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
     Toxins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (\alpha-; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
IT
     Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (a; humanized or chimeric monoclonal anti-CD20 antibodies
        and conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
IT
     Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
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(Therapeutic use); BIOL (Biological study); USES (Uses)
        (β; humanized or chimeric monoclonal anti-CD20 antibodies
       and conjugates for diagnosis and treatment of B cell disease, B cell
       malignancy and autoimmune diseases)
IT
     Interferons
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (γ; humanized or chimeric monoclonal anti-CD20 antibodies
       and conjugates for diagnosis and treatment of B cell disease, B cell
       malignancy and autoimmune diseases)
     329900-75-6, COX-2
TΨ
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (COX-2 inhibitors; humanized or chimeric monoclonal anti-CD20
       antibodies and conjugates for diagnosis and treatment of B cell
       disease, B cell malignancy and autoimmune diseases)
    581975-93-1DP, humanized derivs.
                                        581975-95-3DP, humanized derivs.
ΙĪ
     581976-04-7DP, chimeric conjugates with anti-CD20 antibody A20
     581976-05-8DP, chimeric conjugates with anti-CD20 antibody A20
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
    DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (amino acid sequence; humanized or chimeric monoclonal anti-CD20
       antibodies and conjugates for diagnosis and treatment of B cell
       disease, B cell malignancy and autoimmune diseases)
TT
     192433-87-7P
                   192705-48-9P
                                   444104-00-1P
                                                  556112-97-1P
                                                                 556112-98-2P
     556112-99-3P
                   556113-00-9P
                                   581804-64-0P
                                                  581804-65-1P
                                                                 581804-66-2P
     581804-67-3P
                   581804-68-4P
                                  581804-69-5P
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (humanized or chimeric monoclonal anti-CD20 antibodies and
        conjugates for diagnosis and treatment of B cell disease, B cell
       malignancy and autoimmune diseases)
                                57-13-6D, Urea, substituted derivs.
TT
     55-86-7, Nitrogen mustard
     59-30-3D, Folic acid, analogs
                                    60-34-4D, Methylhydrazine, derivs.
     120-73-0D, Purine, analogs
                                151-56-4D, Ethylenimine, derivs.
                                                                     289-95-2D,
     Pyrimidine, analogs 1605-68-1D, Taxane, analogs
                                                         4375-07-9D,
     Epipodophyllotoxin, derivs.
                                   7439-89-6, Iron, biological studies
     7439-96-5, Manganese, biological studies
                                               7440-06-4D, Platinum,
     coordination complexes
                             7440-54-2, Gadolinium, biological studies
     7689-03-4D, Camptothecin, analogs
                                         9001-99-4, Ribonuclease
                                                                   9003-98-9,
               9014-42-0, Thrombopoietin
                                           10043-66-0, Iodine-131, biological
     DNase I
              10098-91-6, Yttrium-90, biological studies
     studies
                                                            11096-26-7,
                     13010-20-3D, Nitrosourea, derivs.
     Erythropoietin
                                                          13981-22-1,
    Nitrogen-13, biological studies
                                      13981-56-1, Fluorine-18, biological
              13982-43-9, Oxygen-15, biological studies
                                                          14119-09-6,
     studies
     Gallium-67, biological studies
                                    14158-30-6, Iodine-124, biological
              14158-31-7, Iodine-125, biological studies
                                                            14265-75-9,
     studies
     Lutetium-177, biological studies
                                        14265-85-1, Actinium-225, biological
              14276-53-0, Copper-62, biological studies
                                                           14333-33-6,
     studies
     Carbon-11, biological studies
                                    14378-26-8, Rhenium-188, biological
     studies
              14391-73-2, Copper-66, biological studies
                                                           14596-37-3,
     Phosphorus-32, biological studies
                                        14809-53-1, Yttrium-86, biological
              14913-49-6, Bismuth-212, biological studies
     studies
                                                            14998-63-1,
                                      15056-34-5D, Triazene, derivs.
    Rhenium-186, biological studies
     15715-08-9, Iodine-123, biological studies
                                                 15750-15-9, Indium-111,
                         15755-39-2, Astatine-211, biological studies
    biological studies
     15757-14-9, Gallium-68, biological studies
                                                 15757-86-5, Copper-67,
    biological studies
                        15765-38-5, Bromine-76, biological studies
     15776-20-2, Bismuth-213, biological studies
                                                  23214-92-8D, Doxorubicin,
             33069-62-4D, Taxol, analogs 62683-29-8, Colony stimulating
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83869-56-1, GM-CSF
     factor
             75037-46-6, Gelonin
                                                        127464-60-2, Vascular
                               143011-72-7, G-CSF
                                                     187888-07-9D, Endostatin,
     endothelial growth factor
              352423-07-5, Placenta growth factor
                                                    378784-41-9,
     Technetium-94m, biological studies
                                        378784-45-3, Technetium-99m,
     biological studies
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (humanized or chimeric monoclonal anti-CD20 antibodies and
        conjugates for diagnosis and treatment of B cell disease, B cell
        malignancy and autoimmune diseases)
     372092-80-3, Protein kinase
IT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (inhibitors; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
                   581975-89-5DP, chimeric or humanized derivs.
     581975-88-4P
TT
                                                                   581975-90-8P
                                                   581975-92-0DP, humanized
     581975-91-9DP, chimeric or humanized derivs.
              581975-94-2DP, humanized derivs.
     derivs.
                                                 581975-96-4P
                                                                581975-97-5P
     581975-98-6P
                   581975-99-7P
                                   581976-00-3P
                                                 581976-01-4P
                                                                 581976-02-5DP,
     chimeric conjugates with anti-CD20 antibody A20
                                                       581976-03-6DP,
     chimeric conjugates with anti-CD20 antibody A20
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (nucleotide sequence; humanized or chimeric monoclonal anti-CD20
        antibodies and conjugates for diagnosis and treatment of B cell
        disease, B cell malignancy and autoimmune diseases)
     145882-18-4
                  581983-33-7
                               581983-34-8
                                              581983-35-9
IT
                                                             581983-36-0
                  581983-38-2
                                581983-39-3
                                               581983-40-6
                                                            581983-41-7
     581983-37-1
                               581983-44-0
                                              581983-45-1
                                                            581983-46-2
     581983-42-8 581983-43-9
                                                             581983-51-9
     581983-47-3
                  581983-48-4 581983-49-5
                                              581983-50-8
     581983-52-0
                  581983-53-1 581983-54-2
     RL: PRP (Properties)
        (unclaimed sequence; anti-CD20 antibodies and fusion proteins
        for diagnosis and treatment of B cell disease, B cell malignancy and
        autoimmune diseases)
L96 ANSWER 10 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
                        2004:648412 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         141:162344
                        Anthracycline-antibody conjugates
TITLE:
                         Griffiths, Gary L.
INVENTOR(S):
PATENT ASSIGNEE(S):
                         Immunomedics, Inc., USA
                         PCT Int. Appl., 50 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
                         English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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PATENT NO.					KIND DATE				APPLICATION NO.						DATE			
WO 2004067038				A1 20040812			WO 2004-US1367						20040120					
	W:	ΑE,	ΑE,	AG,	AL,	AL,	AM,	AM,	AM,	AT,	ΑT,	ΑU,	ΑZ,	ΑZ,	BA,	BB,	BG,	
		BG,	BR,	BR,	BW,	BY,	BY,	ΒZ,	ΒZ,	CA,	CH,	CN,	CN,	CO,	CO,	CR,	CR,	
		CU,	CU,	CZ,	CZ,	DE,	DE,	DK,	DK,	DM,	DZ,	EC,	EC,	EE,	ΕĖ,	EG,	ES,	
		ES,	FI,	FI,	GB,	GD,	GE,	GE,	GH,	GM,	HR,	HR,	HU,	HU,	ID,	IL,	IN,	
		IS,	JP,	JP,	ΚE,	KE,	KG,	KG,	ΚP,	ΚP,	ΚP,	KR,	KR,	ΚZ,	ΚZ,	ΚZ,	LC,	
		LK,	LR,	LS,	LS,	LT,	LU,	LV,	MA,	MD,	MD,	MG,	MK,	MN,	MW,	MX,	MX,	
		MZ,	MZ,	NA,	NI													
US 2004202666					Α1	20041014			US 2004-757543					20040115				

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US 2003-442125P
                                                                 P 20030124
PRIORITY APPLN. INFO.:
     Entered STN: 12 Aug 2004
ED
     The invention relates to therapeutic conjugates with the ability to target
AB
     various antigens. The conjugates contain a targeting antibody or antigen
     binding fragment thereof and an anthracycline chemotherapeutic drug.
     targeting antibody and the chemotherapeutic drug are linked via a linker
     comprising a hydrazide moiety.
     ICM A61K047-48
TC
     63-5 (Pharmaceuticals)
CC
     Section cross-reference(s): 1, 8, 15
     anthracycline conjugate antibody drug targeting antitumor
ST
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (4; antitumor anthracycline-antibody conjugates)
TT
     CD antigens
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (CD33; antitumor anthracycline-antibody conjugates)
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (CD66; antitumor anthracycline-antibody conjugates)
IT
     Antigens
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (CSAp; antitumor anthracycline-antibody conjugates)
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (EPG-1; antitumor anthracycline-antibody conjugates)
IT
     Antiqens
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (HER-2/neu; antitumor anthracycline-antibody conjugates)
IT
     Immunoglobulin receptors
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (IqE type II; antitumor anthracycline-antibody conjugates)
IT
     Antibodies and Immunoglobulins
     RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical
     process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological
     study); PROC (Process); USES (Uses)
        (IgG; antitumor anthracycline-antibody conjugates)
     Antigens
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (MAGE (melanoma antigen-encoding gene); antitumor anthracycline-
        antibody conjugates)
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (MUC1; antitumor anthracycline-antibody conjugates)
     Mucins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (MUC2; antitumor anthracycline-antibody conjugates)
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (MUC3; antitumor anthracycline-antibody conjugates)
IT
     Antigens
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (NCA90; antitumor anthracycline-antibody conjugates)
     Antigens
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (NCA95; antitumor anthracycline-antibody conjugates)
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (Thomas-Friedenreich; antitumor anthracycline-antibody
        conjugates)
IT
     B cell (lymphocyte)
        (antibodies against; antitumor anthracycline-antibody
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conjugates)
     Antitumor agents
IT
     Carcinoma
     Chemotherapy
     Digestive tract, neoplasm
       Hodgkin's disease
     Human
     Immunomodulators
     Immunotherapy
     Leukemia
       Lymphoma
     Melanoma
     Molecular cloning
     Nervous system, neoplasm
     Neuroglia, neoplasm
       Radiotherapy
     Reproductive tract, neoplasm
     Sarcoma
     Skin, neoplasm
     Surgery
        (antitumor anthracycline-antibody conjugates)
     Fusion proteins (chimeric proteins)
TT
     RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (antitumor anthracycline-antibody conjugates)
TT
     Angiogenic factors
     CD19 (antigen)
     CD22 (antigen)
     CD40 (antigen)
     CD80 (antigen)
     Carcinoembryonic antigen
     Epidermal growth factor receptors
     Gangliosides
     Interleukin 2
     Invariant chain (class II antigen)
       Tenascins
     Tumor necrosis factors
     \alpha-Fetoproteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (antitumor anthracycline-antibody conjugates)
TT
     Cytokines
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (antitumor anthracycline-antibody conjugates)
IT
     Interferons
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (antitumor anthracycline-antibody conjugates)
     Interleukins
IT
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (antitumor anthracycline-antibody conjugates)
     Antibodies and Immunoglobulins
IT
     RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical
     process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological
     study); PROC (Process); USES (Uses)
        (chimeric, conjugates; antitumor anthracycline-antibody
        conjugates)
     Antibodies and Immunoglobulins
IT
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (conjugates; antitumor anthracycline-antibody conjugates)
IT
     Anthracyclines
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (derivs., conjugates; antitumor anthracycline-antibody
        conjugates)
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Receptors
IT
     Receptors
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (folate; antitumor anthracycline-antibody conjugates)
     Antibodies and Immunoglobulins
TT
     RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical
     process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological
     study); PROC (Process); USES (Uses)
        (humanized, conjugates; antitumor anthracycline-antibody
        conjugates)
IT
     Drug delivery systems
        (immunoconjugates; antitumor anthracycline-antibody
        conjugates)
IT
     Drug delivery systems
        (injections; antitumor anthracycline-antibody conjugates)
IT
     Leukemia
        (myelogenous; antitumor anthracycline-antibody conjugates)
IT
     Endocytosis
        (receptor-mediated; antitumor anthracycline-antibody
        conjugates)
IT
     Drug delivery systems
        (targeted; antitumor anthracycline-antibody conjugates)
TT
     Antigens
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (tumor-specific antigens; antitumor anthracycline-antibody
        conjugates)
     Complement receptors
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (type 2; antitumor anthracycline-antibody conjugates)
TT
     Interleukin 2 receptors
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (\alpha chain; antitumor anthracycline- antibody conjugates)
ΙT
     9001-03-0, Carbonic anhydrase
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (IX; antitumor anthracycline-antibody conjugates)
IT
                       127464-60-2, Vascular endothelial growth factor
     62229-50-9, Egf
     352423-07-5, Plgf
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (antitumor anthracycline-antibody conjugates)
     20830-81-3D, Daunorubicin, antibody conjugates
IT
                                                       23214-92-8D,
     Doxorubicin, antibody conjugates
                                        56420-45-2D, Epirubicin,
                           80790-68-7D, Morpholinodoxorubicin,
     antibody conjugates
     antibody conjugates
                           88254-07-3D, antibody conjugates
     175795-76-3D, antibody conjugates
     RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical
     process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological
     study); PROC (Process); USES (Uses)
        (antitumor anthracycline-antibody conjugates)
IT
     9014-42-0, Thrombopoietin
                                 11096-26-7, Erythropoietin
                                                               83869-56-1, Gmcsf
     143011-72-7, Gcsf
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (antitumor anthracycline-antibody conjugates)
IT
     181148-00-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (linker; antitumor anthracycline-antibody conjugates)
L96 ANSWER 11 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
                         2004:515336 HCAPLUS
DOCUMENT NUMBER:
                         141:71389
TITLE:
                         Preparation of porphyrin derivatives and their uses in
                         radioimmunotherapy
INVENTOR(S):
                         Boitrel, Bernard Philippe Albert
```

Centre National De La Recherche Scientifique Cnrs, PATENT ASSIGNEE(S):

Fr.; Universite Rennes 1

SOURCE: Fr. Demande, 46 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.			KIND DATE			APPLICATION NO.						DATE					
		- -				-									-			
FR	FR 2849035			A1 2004			0040625 FR 2002-16371					20021220						
WO	WO 2004063199				A1 200407			0729	WO 2003-FR3794					20031218				
	W:	ΑE,	AG,	ΑL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
		CO,	CR,	CU,	CZ,	DΕ,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	
		LS,	LT,	LU,	LV,	ΜA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	ΝZ,	OM,	PH,	
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	
		ŪĠ,	US,	UΖ,	VN,	YU,	ZA,	ZM,	zw									
	RW:	ВW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	
		BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
		ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
		TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG
PRIORITY APPLN. INFO.:									FR 2002-16371				A 20021220					
										FR 2003-12341				A 20031022				
OTHER S		MARPAT 141:71389																

OTHER SOURCE(S):

Entered STN: 25 Jun 2004

GT

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The invention claims the compds. I [when A forms with C a chain, AΒ X-Y-C6H4-(CH2)n1-C(Z,W)-(CH2)n2-C6H4 (AC); then B forms with D a chain, known as chain data base (BD), of above-mentioned formula, the aforementioned chains AC, and BD, being located independently one of the other, with the top (position α) or with the lower part (position β) plan of porphyrin macrocycle, - or when A forms with D a chain, known as chain AD, of above-mentioned formula, then B forms with C a chain, known as BC chain, of above-mentioned formula, one of the aforesaid chains AD or BC, being located at the top (position α) plan of porphyrin macrocycle, while other chain AD or BC, is located or at the lower part (position β) plan of the porphyrin macrocycle; when $X = \beta$ NH, O, CO, CH2 then Y = CO, CH2, NH, O, resp.; n1, n2 = 1, 2, 3; Z = CN, NO2, CO2-, CH2NR1R2, SO3R3, SO2R3; R1, R2 = H, (un)branched alkyl, C1-8-cycloalkyl, aryl, alkylaryl, antibody; R3 = H, Na, K, NR4R5; R4, R5 = (un)branched alkyl, C1-8-cycloalkyl, 4-nitroaryl; W = CO2-, CO2R6; R6 = H, (un)branched alkyl, C1-8-cycloalkyl, aryl, alc., o-, m-, p-nitrophenol; ZW = Meldrums acid; EF, GH = CH:CH, CH2CH2]. L' of the invention also relates to the complexes between these compds. and of the radioelements, as well as pharmaceutical compns. containing these complexes. Thus, malonate derivative $\alpha, \alpha, \alpha, \alpha$ [AB = CD = -2-[NHCOC6H4CH2-3-C(CO2Et)2-3'-CH2C6H4CONH]-2'-; EF = GH = CH:CH] was prepared from $\alpha, \alpha, \alpha, \alpha$ -mesotetrakis(2-aminophenyl)porphyrin via N-acylation with 3-(ClCH2)C6H4COCl, followed by alkylation of CH2(CO2Et)2 by the resulting benzamide. ICM C07D487-22 IC A61K051-00; A61K049-00; A61K031-409; A61P035-00; C07D207-44;

C07D207-323; C07D257-00; A61K103-40; A61K103-00

26-7 (Biomolecules and Their Synthetic Analogs) CC

Section cross-reference(s): 29, 63, 78

IT Immunoradiotherapy

> (agents for; preparation of porphyrin derivs. and their uses in radioimmunotherapy)

IT Lymphoma

> (non-Hodgkin's, radioimaging agents for; preparation of porphyrin derivs. and their uses in radioimmunotherapy)

IT CD20 (antigen)

CD22 (antigen)

Carcinoembryonic antigen

Tenascins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (pathologies related to, radioimaging agents for; preparation of porphyrin derivs. and their uses in radioimmunotherapy)

Lymphoma IT

Neoplasm

(radioimaging agents for; preparation of porphyrin derivs. and their uses in radioimmunotherapy)

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L96 ANSWER 12 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN

8

2003:435061 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

139:21033

TITLE:

Vectors expressing soluble form of single chain antibody and streptavidin (scFvSA) fusions and

uses thereof as diagnostic markers or as cell specific

targeting agents

Goshorn, Stephen Charles; Graves, Scott Stoll; INVENTOR(S):

Schultz, Joanne Elaine; Lin, Yukang; Sanderson, James

Allen; Reno, John M.; Dearstyne, Erica A.

PATENT ASSIGNEE(S): NeoRx Corporation, USA

SOURCE:

U.S. Pat. Appl. Publ., 84 pp., Cont.-in-part of U.S.

Ser. No. 13,173. CODEN: USXXCO

DOCUMENT TYPE:

Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.			KIND DATE				APPLICATION NO.						DATE					
US	2003	1039	 48		A1	-	2003	0605	1	US 2	002-	1507	62		2	0020	 517		
US	US 2003095977			A1		20030522			US 2001-13173					20011207					
US	US 2003143233			A1 2003073			0731	US 2002-244821						20020916					
WC	· · · · · · · · · · · · · · · · · · ·			A2 20030619			WO 2002-US39429						20021206						
WC					A3 20041125														
							AU,		BA,	BB.	BG,	BR.	BY.	BZ.	CA,	CH.	CN.		
							DK,		•				-				-		
		•	•			-	IN,	-	•		•	•	•	•	•	•	•		
		•	•	•	•	-	MD,				•	•	•	•	•	•	•		
						-	SD,		-							-	•		
				•		-	VN,	-				10,	,	110,	110,	,	14,		
	DW.	•	•	•	•	•	MZ,	•	•	,		ПC	7M	7147	λM	N 7	DV		
	100.						TM,												
		•		•			IT,	•			•	•	•	•	•	Dr,	ы,		
nn	1400	•	CG,	CI,	•	•	GN,						•	•					
EF	EP 1499630							EP 2002-790070											
	R:	•		-		-	ES,	-	_	-	•					MC,	PT,		
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	SK				
PRIORIT	Y APP	LN.	INFO	. :						US 1999-137900P					P 19990607				
									1	US 1999-168976P					P 19991203				

US	2000-589870	A2	20000605
US	2001-13173	A2	20011207
US	2002-150762	A2	20020517
US	2002-244821	Α	20020916
WO	2002-US39429	W	20021206

ED Entered STN: 06 Jun 2003

The present invention provides vectors for expressing Streptomyces AB avidinii genomic streptavidin (SA) fusion cassettes. A genomic streptavidin expressed gene fusion is expressed as a soluble protein into the periplasmic space of bacteria and undergoes spontaneous folding. Such expression offers the advantage that the periplasm is a low biotin environment and one need not purify and refold the protein under harsh denaturing conditions that may prove fatal to the polypeptide encoded by a heterologous nucleic acid mol. fused to the genomic streptavidin nucleic acid mol. In the various embodiments, fusion proteins produced from these vectors are provided. In particular embodiments, fusion proteins comprising a single chain antibody and streptavidin (scFvSA) are provided as are vectors encoding the same. The single chain antibodies are directed to cell surface antigens or cell-associated stromal or matrix proteins such as CD20, CD45, CD22, CD52, CD56, CD57, EGP40, NCAM, CEA, TAG-72, mucins (MUC1-7), 13HCG, EGF receptor, IL-2 receptor, her2/neu, Lewis Y, GD2, GM2, tenascin, sialylated tenascin, somatostatin, activated tumor stromal antigen or neoangiogenic antigens. Also provided, are methods of using the fusion proteins of the present invention, in the absence and presence of a radiation-sensitizing agent, and in particular, the use of scFvSA fusion proteins as diagnostic markers or as a cell specific targeting agents.

IC ICM A61K048-00

ICS C07H021-04; C12P021-04; C12N001-21; C12N005-06; C07K014-435

NCL 424093210; 435069700; 435320100; 435325000; 536023500; 530350000; 435252300

CC 15-3 (Immunochemistry)

Section cross-reference(s): 3, 9, 63

ST streptavidin **antibody** fusion protein diagnosis cell tumor targeting

IT Gene, animal

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(13HCG; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Antigens

RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(17-1A, EGP40; vectors expressing soluble form of single chain antibody and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Lymphoma

(B-cell diffuse, large cell; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Lymphoma

(B-cell, high-grade; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Lymphoma

(B-cell, marginal zone; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

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(B9E9; vectors expressing soluble form of single chain antibody
   and streptavidin (scFvSA) fusions and uses thereof as diagnostic
   markers or as cell specific targeting agents)
Lymphoma
   (Burkitt's; vectors expressing soluble form of single chain
   antibody and streptavidin (scFvSA) fusions and uses thereof as
   diagnostic markers or as cell specific targeting agents)
Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); THU (Therapeutic
use); BIOL (Biological study); PREP (Preparation); USES (Uses)
   (CC49; vectors expressing soluble form of single chain antibody
   and streptavidin (scFvSA) fusions and uses thereof as diagnostic
   markers or as cell specific targeting agents)
Antigens
RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
   (CD52; vectors expressing soluble form of single chain antibody
   and streptavidin (scFvSA) fusions and uses thereof as diagnostic
   markers or as cell specific targeting agents)
CD antigens
RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
   (CD57; vectors expressing soluble form of single chain antibody
   and streptavidin (scFvSA) fusions and uses thereof as diagnostic
   markers or as cell specific targeting agents)
Gene, animal
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
   (ERBB2; vectors expressing soluble form of single chain antibody
   and streptavidin (scFvSA) fusions and uses thereof as diagnostic
   markers or as cell specific targeting agents)
Promoter (genetic element)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
   (Lac, constitutive, in vector; vectors expressing soluble form of single
   chain antibody and streptavidin (scFvSA) fusions and uses
   thereof as diagnostic markers or as cell specific targeting agents)
Blood-group substances
RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
   (Le, Ley, (Lewis Y); vectors expressing soluble form of single chain
   antibody and streptavidin (scFvSA) fusions and uses thereof as
   diagnostic markers or as cell specific targeting agents)
Gene, animal
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
   (MUC1-7; vectors expressing soluble form of single chain antibody
   and streptavidin (scFvSA) fusions and uses thereof as diagnostic
   markers or as cell specific targeting agents)
RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
   (MUC1-7; vectors expressing soluble form of single chain antibody
   and streptavidin (scFvSA) fusions and uses thereof as diagnostic
   markers or as cell specific targeting agents)
Cell adhesion molecules
RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
   (N-CAM; vectors expressing soluble form of single chain antibody
   and streptavidin (scFvSA) fusions and uses thereof as diagnostic
   markers or as cell specific targeting agents)
Proteins
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RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
    USES (Uses)
        (SU (surface); vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
    Leukemia
        (T-cell, adult, HTLY-1-associated; vectors expressing soluble form of single
        chain antibody and streptavidin (scFvSA) fusions and uses
        thereof as diagnostic markers or as cell specific targeting agents)
IT
    Lymphoma
        (T-cell, peripheral; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
       diagnostic markers or as cell specific targeting agents)
    Lymphoma
IT
        (T-cell, stages Ib through IV cutaneous; vectors expressing soluble form
       of single chain antibody and streptavidin (scFvSA) fusions
       and uses thereof as diagnostic markers or as cell specific targeting
       agents)
    Antigens
TΤ
    RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
    USES (Uses)
        (TAG-72 (tumor-associated glycoprotein 72); vectors expressing soluble form
       of single chain antibody and streptavidin (scFvSA) fusions
       and uses thereof as diagnostic markers or as cell specific targeting
       agents)
    Lymphoproliferative disorders
TΤ
        (Waldenstrom's macroglobulinemia; vectors expressing soluble form of
        single chain antibody and streptavidin (scFvSA) fusions and
       uses thereof as diagnostic markers or as cell specific targeting
       agents)
    Antigens
IT
    RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
    USES (Uses)
        (activated tumor stromal antigen; vectors expressing soluble form of
        single chain antibody and streptavidin (scFvSA) fusions and
       uses thereof as diagnostic markers or as cell specific targeting
        agents)
TΤ
    Leukemia
        (acute lymphocytic; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
    Leukemia
        (acute myelogenous; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
    Carcinoma
IT
        (adenocarcinoma; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
    Antibodies and Immunoglobulins
TT
    RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
    USES (Uses)
        (anti-CD25, or fragments; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
TT
    Mus
    Rattus
    Rodentia
        (antibody from; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
    Radionuclides, biological studies
IT
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IT

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agents)

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RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic
use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
   (biotinylated, compound containing; vectors expressing soluble form of single
   chain antibody and streptavidin (scFvSA) fusions and uses
   thereof as diagnostic markers or as cell specific targeting agents)
Diagnosis
   (cancer; vectors expressing soluble form of single chain antibody
   and streptavidin (scFvSA) fusions and uses thereof as diagnostic
   markers or as cell specific targeting agents)
Appendix
Esophagus, neoplasm
Liver, neoplasm
Lung, neoplasm
Mammary gland, neoplasm
Pancreas, neoplasm
Prostate gland, neoplasm
Stomach, neoplasm
   (carcinoma or adenocarcinoma; vectors expressing soluble form of single
   chain antibody and streptavidin (scFvSA) fusions and uses
   thereof as diagnostic markers or as cell specific targeting agents)
Ovary, neoplasm
Salivary gland, neoplasm
   (carcinoma, or adenocarcinoma; vectors expressing soluble form of single
   chain antibody and streptavidin (scFvSA) fusions and uses
   thereof as diagnostic markers or as cell specific targeting agents)
Receptors
RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
  (cell surface protein; vectors expressing soluble form of single chain
   antibody and streptavidin (scFvSA) fusions and uses thereof as
   diagnostic markers or as cell specific targeting agents)
   (cell, expression host; vectors expressing soluble form of single chain
   antibody and streptavidin (scFvSA) fusions and uses thereof as
   diagnostic markers or as cell specific targeting agents)
Neoplasm
   (cell, targeting; vectors expressing soluble form of single chain
   antibody and streptavidin (scFvSA) fusions and uses thereof as
   diagnostic markers or as cell specific targeting agents)
   (chronic B-lymphocytic; vectors expressing soluble form of single chain
 ^{ackslash} antibody and streptavidin (scFvSA) fusions and uses thereof as
   diagnostic markers or as cell specific targeting agents)
   (chronic lymphocytic; vectors expressing soluble form of single chain
   antibody and streptavidin (scFvSA) fusions and uses thereof as
   diagnostic markers or as cell specific targeting agents)
Leukemia
   (chronic myelocytic; vectors expressing soluble form of single chain
   antibody and streptavidin (scFvSA) fusions and uses thereof as
   diagnostic markers or as cell specific targeting agents)
Genetic element
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
   (cloning sites, in vector; vectors expressing soluble form of single chain
   antibody and streptavidin (scFvSA) fusions and uses thereof as
   diagnostic markers or as cell specific targeting agents)
Intestine, neoplasm
   (colon, carcinoma or adenocarcinoma; vectors expressing soluble form of
   single chain antibody and streptavidin (scFvSA) fusions and
   uses thereof as diagnostic markers or as cell specific targeting
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Biomarkers (biological responses)
IT
        (diagnostic; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
     Salivary gland
        (duct, carcinoma, or adenocarcinoma; vectors expressing soluble form of
        single chain antibody and streptavidin (scFvSA) fusions and
        uses thereof as diagnostic markers or as cell specific targeting
        agents)
IT
    Uterus, neoplasm
        (endometrium, carcinoma or adenocarcinoma; vectors expressing soluble form
        of single chain antibody and streptavidin (scFvSA) fusions
        and uses thereof as diagnostic markers or as cell specific targeting
        agents)
    Escherichia coli
IT
    Eubacteria
    Plant cell
        (expression host; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
       diagnostic markers or as cell specific targeting agents)
    Gene, animal
TТ
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (for antibody; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
    Gene, microbial
    RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
    study); USES (Uses)
        (for streptavidin, from Streptomyces avidinii; vectors expressing soluble
        form of single chain antibody and streptavidin (scFvSA)
        fusions and uses thereof as diagnostic markers or as cell specific
        targeting agents)
    Radiosensitizers, biological
IT
        (for tumor cell targeting; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
    Antibodies and Immunoglobulins
    RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); THU (Therapeutic
    use); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (fragments, single chain Fv; vectors expressing soluble form of single
        chain antibody and streptavidin (scFvSA) fusions and uses
        thereof as diagnostic markers or as cell specific targeting agents)
    Signal peptides
TT
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (from Streptomyces avidinii, vector encoding; vectors expressing soluble
        form of single chain antibody and streptavidin (scFvSA)
        fusions and uses thereof as diagnostic markers or as cell specific
        targeting agents)
IT
    Leukemia
        (hairy-cell; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
    Antibodies and Immunoglobulins
    RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
    USES (Uses)
        (heavy chain, single, variable; vectors expressing soluble form of single
        chain antibody and streptavidin (scFvSA) fusions and uses
        thereof as diagnostic markers or as cell specific targeting agents)
IT
    Neoplasm
        (hematol.; vectors expressing soluble form of single chain
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antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
    Antibodies and Immunoglobulins
TT
    RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); THU (Therapeutic
    use); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (humanized; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
    Gene, microbial
IT
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (lac, promoter from; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
    Genetic element
    RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
     study); USES (Uses)
        (leader sequence, bacterial, in vector; vectors expressing soluble form of
        single chain antibody and streptavidin (scFvSA) fusions and
        uses thereof as diagnostic markers or as cell specific targeting
    Antibodies and Immunoglobulins
IT
    RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
    USES (Uses)
        (light chain, single, variable; vectors expressing soluble form of single
        chain antibody and streptavidin (scFvSA) fusions and uses
        thereof as diagnostic markers or as cell specific targeting agents)
     Peptides, biological studies
IT
     RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
     study); USES (Uses)
        (linker, in fusion protein; vectors expressing soluble form of single
        chain antibody and streptavidin (scFvSA) fusions and uses
        thereof as diagnostic markers or as cell specific targeting agents)
IT
     Lymphoma
        (lymphoblastic, precursor B-lymphoblastic; vectors expressing soluble form
        of single chain antibody and streptavidin (scFvSA) fusions
        and uses thereof as diagnostic markers or as cell specific targeting
        agents)
IT
     Lymphoma
        (lymphoplasmacytoid; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
     Animal cell
        (mammalian, expression host; vectors expressing soluble form of single
        chain antibody and streptavidin (scFvSA) fusions and uses
        thereof as diagnostic markers or as cell specific targeting agents)
IT
     Proteins
     RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (matrix, cell-associated; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
     Proteins
     RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (membrane, cell surface; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
     Diagnosis
        (mol., tumor; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
     Antigens
```

RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(neoangiogenic; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Lymphoma

(nodular; vectors expressing soluble form of single chain antibody and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Lymphoma

(non-Hodgkin's, mantle cell; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Lymphoma

(non-Hodgkin's; vectors expressing soluble form of single chain antibody and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Carcinoma

(ovarian, or adenocarcinoma; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Organelle

(periplasm, of E. coli, scFvSA expressed into; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Leukemia

(prolymphocytic; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Carcinoma

(rectal, or adenocarcinoma; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Intestine, neoplasm

(rectum, carcinoma, or adenocarcinoma; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Genetic element

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(regulatory, from Streptomyces avidinii, in vector; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Antibiotic resistance

(selection marker conferring; vectors expressing soluble form of single chain **antibody** and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (single chain; vectors expressing soluble form of single chain antibody and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Lymphoma

(small lymphocytic; vectors expressing soluble form of single chain antibody and streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or as cell specific targeting agents)

IT Lymphoma

(splenic marginal zone; vectors expressing soluble form of single chain

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antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
    Leukemia
        (stem cell, precursor B-lymphoblastic; vectors expressing soluble form of
        single chain antibody and streptavidin (scFvSA) fusions and
        uses thereof as diagnostic markers or as cell specific targeting
        agents)
IT
     Streptomyces avidinii
        (streptavidin from; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
     Proteins
    RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (stromal, cell-associated; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
    Antigens
    RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
    USES (Uses)
        (surface; vectors expressing soluble form of single chain antibody
        and streptavidin (scFvSA) fusions and uses thereof as diagnostic
        markers or as cell specific targeting agents)
IT
    Radiotherapy
        (targeted; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
    Antigens
    RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
    USES (Uses)
        (tumor-associated; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
     Antitumor agents
     Carcinoma
    DNA sequences
    Drug delivery systems
     Genetic vectors
       Hodgkin's disease
     Human
     Immunotherapy
     Linking agents
    Melanoma
    Molecular cloning
    Multiple myeloma
    Neuroglia, neoplasm
     Protein sequences
     Tumor markers
     cDNA sequences
        (vectors expressing soluble form of single chain antibody and
        streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or
        as cell specific targeting agents)
IT
     Fusion proteins (chimeric proteins)
     RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP
     (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (vectors expressing soluble form of single chain antibody and
        streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or
        as cell specific targeting agents)
IT
    Angiogenic factors
     CD20 (antigen)
     CD22 (antigen)
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CD45 (antigen)
     Carcinoembryonic antigen
     Epidermal growth factor receptors
     Interleukin 2 receptors
       Tenascins
     neu (receptor)
     RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (vectors expressing soluble form of single chain antibody and
        streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or
        as cell specific targeting agents)
     9002-61-3, Human chorionic gonadotropin
IT
     RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (13HCG; vectors expressing soluble form of single chain antibody
        and streptavidin (scFvSA) fusions and uses thereof as diagnostic
        markers or as cell specific targeting agents)
IT
     51-21-8, 5-Fluorouracil
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (5-Fluorouracil, as sensitizing agent; vectors expressing soluble form of
        single chain antibody and streptavidin (scFvSA) fusions and
        uses thereof as diagnostic markers or as cell specific targeting
        agents)
IT
     2543-43-3
     RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
     study); USES (Uses)
        (amino acid sequence, Gly-Ser linker; vectors expressing soluble form of
        single chain antibody and streptavidin (scFvSA) fusions and
        uses thereof as diagnostic markers or as cell specific targeting
        agents)
IT
     538410-22-9DP, subfragments are claimed
     RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST
     (Analytical study); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (amino acid sequence; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
     538410-24-1DP, subfragments are claimed
                                               538410-27-4DP, subfragments are
IT
     claimed
     RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP
     (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (amino acid sequence; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
     58-85-5, Biotin
     RL: ARU (Analytical role, unclassified); BUU (Biological use,
     unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (biotin; vectors expressing soluble form of single chain antibody
        and streptavidin (scFvSA) fusions and uses thereof as diagnostic
        markers or as cell specific targeting agents)
     9013-20-1P, Streptavidin
IT
     RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST
     (Analytical study); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (chimeric; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
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TΤ
     95058-81-4, Gemcitabine
    RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (gemcitabine, as sensitizing agent; vectors expressing soluble form of
        single chain antibody and streptavidin (scFvSA) fusions and
        uses thereof as diagnostic markers or as cell specific targeting
        agents)
     139816-71-0
                   140528-95-6
IT
     RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
     (Biological study)
        (nucleotide sequence; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
                   538410-23-0 538410-25-2
IT
     538410-21-8
                                               538410-26-3
     RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
     study); USES (Uses)
        (nucleotide sequence; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
     33069-62-4, Paclitaxel
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (paclitaxel, as as sensitizing agent; vectors expressing soluble form of
        single chain antibody and streptavidin (scFvSA) fusions and
        uses thereof as diagnostic markers or as cell specific targeting
        agents)
IT
     538454-44-3 538454-48-7
                                 538454-50-1
                                                538454-51-2
                                                              538454-52-3
     538454-53-4
                   538454-54-5
                                 538454-55-6
                                                538454-56-7
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                                 538454-98-7
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     538455-01-5
                   538455-03-7
                                 538455-04-8
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                                                              538455-06-0
     538455-07-1
                   538455-08-2
                                 538455-09-3
                                                538455-10-6
                                                              538455-11-7
     538455-12-8
                   538455-13-9
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     538455-17-3
                   538455-18-4
                                 538455-19-5
                                               538455-20-8
                                                              538455-21-9
     538455-23-1
                   538455-24-2
     RL: PRP (Properties)
        (unclaimed nucleotide sequence; vectors expressing soluble form of single
        chain antibody and streptavidin (scFvSA) fusions and uses
        thereof as diagnostic markers or as cell specific targeting agents)
IT
     538454-47-6
                   538454-49-8
     RL: PRP (Properties)
        (unclaimed protein sequence; vectors expressing soluble form of single
        chain antibody and streptavidin (scFvSA) fusions and uses
        thereof as diagnostic markers or as cell specific targeting agents)
IT
     122024-47-9
                   149298-31-7
                                 149322-31-6
                                               313058-85-4
                                                              313058-86-5
     313058-87-6
     RL: PRP (Properties)
        (unclaimed sequence; vectors expressing soluble form of single chain
        antibody and streptavidin (scFvSA) fusions and uses thereof as
        diagnostic markers or as cell specific targeting agents)
IT
                       51110-01-1, Somatostatin
     19600-01-2, GM2
                                                  65988-71-8, GD2
     RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (vectors expressing soluble form of single chain antibody and
        streptavidin (scFvSA) fusions and uses thereof as diagnostic markers or
        as cell specific targeting agents)
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L96 ANSWER 13 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
                         2003:396269 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         138:400405
TITLE:
                         Streptavidin-antibody fusion proteins for
                         diagnosis and specific cell targeting
                         Goshorn, Stephen Charles: Graves, Scott Stoll;
INVENTOR(S):
                         Schultz, Joanne Elaine; Lin, Yukang; Sanderson, James
                         Allen; Reno, John M.
                         Neorx Corporation, USA
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     US 2003095977
                         A1
                                20030522
                                           US 2001-13173
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     EP 1499630
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                                                                   20021206
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                                                            P 19990607
PRIORITY APPLN. INFO.:
                                            US 1999-137900P
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                                                              A2 20011207
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                                                              A 20020916
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                                                               W 20021206
     Entered STN: 23 May 2003
ED
     The present invention provides vectors for expressing genomic streptavidin
AB
     fusion cassettes and fusion protein produced from the vectors. In
     particular embodiments, fusion proteins comprising a single chain antibody
     and genomic streptavidin are provided as are vectors encoding the same.
     Also provided are methods of using the fusion proteins of the present
     invention, and in particular, the use of scFvSA fusion proteins as
     diagnostic markers or as a cell specific targeting agents. The single
     chain antibodies are directed to cell surface antigens or cell-associated
     stromal or matrix protein such as CD20, CD45, CD22, CD52, CD56, CD57,
     EGP40, NCAM, CEA, TAG-72, mucins (MUC1-7), 13HCG, EGF receptor, IL-2
     receptor, her2/neu, Lewis Y, GD2, GM2, tenascin, sialylated tenascin,
     somatostatin, activated tumor stromal antigen or neoangiogenic antigens.
     ICM A61K039-00
IC
     ICS C07H021-04; C12P021-02; C12N005-06; C12P021-04
     424185100; 435069700; 435320100; 435325000; 530350000; 536023500
NCL
```

15-3 (Immunochemistry)

CC

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Section cross-reference(s): 3, 9, 63
     streptavidin antibody fusion protein diagnosis cell tumor
ST
     targeting
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (17-1A; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
IT
     Lymphoma
        (B-cell diffuse, large cell; streptavidin-antibody fusion
        proteins for diagnosis and specific cell targeting)
     Lymphoma
TΤ
        (B-cell, chronic lymphocytic; streptavidin-antibody fusion
        proteins for diagnosis and specific cell targeting)
     Lymphoma
IT
        (B-cell, high grade; streptavidin-antibody fusion proteins
        for diagnosis and specific cell targeting)
IT
     Lymphoma
        (B-cell, marginal zone; streptavidin-antibody fusion proteins
        for diagnosis and specific cell targeting)
IT
     Lymphoma
        (Burkitt's; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD52; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
IT
     CD antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (CD57; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
TT
     Gene, animal
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (ERBB2; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
IT
     Blood-group substances
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (Ley; streptavidin-antibody fusion proteins for diagnosis and
        specific cell targeting)
TT
     Mucins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MUC1; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
IT
     Mucins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MUC2; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
IT
     Mucins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MUC3; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
ΙT
     Mucins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MUC4; streptavidin-antibody fusion proteins for diagnosis
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and specific cell targeting)
IT
     Mucins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MUC5; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
TΤ
     Mucins
     RL. BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MUC6; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
IT
     Mucins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (MUC7; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
     Cell adhesion molecules
IT
     Cell adhesion molecules
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (N-CAM; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
     Proteins
TΤ
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (SU (surface); streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Lymphoma
        (T-cell; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
     Antigens
TT
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (TAG-72 (tumor-associated glycoprotein 72); streptavidin-antibody
        fusion proteins for diagnosis and specific cell targeting)
     Lymphoproliferative disorders
IT
        (Waldenstrom's macroglobulinemia; streptavidin-antibody
        fusion proteins for diagnosis and specific cell targeting)
TT
     Leukemia
        (acute lymphocytic; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
TT
     Leukemia
        (acute myelogenous; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
     Appendix
IT
     Salivary gland, neoplasm
        (adenocarcinoma and carcinoma; streptavidin-antibody fusion
        proteins for diagnosis and specific cell targeting)
IT
     Carcinoma
     Esophagus, neoplasm
     Lung, neoplasm
     Mammary gland, neoplasm
     Ovary, neoplasm
     Pancreas, neoplasm
     Prostate gland, neoplasm
     Stomach, neoplasm
        (adenocarcinoma; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Diagnosis
     Diagnosis
        (cancer; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
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IT
     Esophagus, neoplasm
     Lung, neoplasm
     Mammary gland, neoplasm
     Ovary, neoplasm
     Pancreas, neoplasm
     Prostate gland, neoplasm
     Stomach, neoplasm
        (carcinoma; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
        (cell; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
     Leukemia
IT
        (chronic lymphocytic; streptavidin-antibody fusion proteins
        for diagnosis and specific cell targeting)
TT
        (chronic myelocytic; streptavidin-antibody fusion proteins
        for diagnosis and specific cell targeting)
IT
     Carcinoma
        (colon adenocarcinoma; streptavidin-antibody fusion proteins
        for diagnosis and specific cell targeting)
IT
     Intestine, neoplasm
        (colon, adenocarcinoma; streptavidin-antibody fusion proteins
        for diagnosis and specific cell targeting)
IT
     Intestine, neoplasm
        (colon, carcinoma; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Carcinoma
        (colon; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
     Biomarkers (biological responses)
IT
        (diagnostic; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
ΙT
     Salivary gland
        (duct, adenocarcinoma and carcinoma; streptavidin-antibody
        fusion proteins for diagnosis and specific cell targeting)
IT
     Carcinoma
        (endometrial; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Uterus, neoplasm
        (endometrium, adenocarcinoma; streptavidin-antibody fusion
        proteins for diagnosis and specific cell targeting)
     Uterus, neoplasm
TΤ
        (endometrium, carcinoma; streptavidin-antibody fusion
        proteins for diagnosis and specific cell targeting)
IT
        (esophageal adenocarcinoma; streptavidin-antibody fusion
        proteins for diagnosis and specific cell targeting)
IT
     Carcinoma
        (esophageal; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Gene, animal
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (for antibody; streptavidin-antibody fusion
        proteins for diagnosis and specific cell targeting)
IT
     Gene, microbial
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (for streptavidin; streptavidin-antibody fusion proteins for
```

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diagnosis and specific cell targeting)
IT
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (fragments; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
     Antibodies and Immunoglobulins
IT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (fusion products; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Carcinoma
        (gastric adenocarcinoma; streptavidin-antibody fusion
        proteins for diagnosis and specific cell targeting)
IT
     Carcinoma
        (gastric; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
IT
     Leukemia
        (hairy-cell; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (heavy chain; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Neoplasm
        (hematol.; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Carcinoma
        (hepatocellular; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Liver, neoplasm
        (hepatoma; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (humanized; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Drug delivery systems
        (immunoconjugates; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Diagnosis
        (immunodiagnosis; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
IT
     Animal cell
        (insect; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
IT
     Gene, microbial
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (lac, promoter; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
     Genetic element
TΤ
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (leader sequence; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
TΤ
     Antibodies and Immunoglobulins
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
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DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
   (light chain; streptavidin-antibody fusion proteins for
   diagnosis and specific cell targeting)
Lymphoma
   (lymphoblastic, precursor B-; streptavidin-antibody fusion
   proteins for diagnosis and specific cell targeting)
Leukemia
   (lymphocytic, precursor B; streptavidin-antibody fusion
   proteins for diagnosis and specific cell targeting)
Leukemia
   (lymphocytic, pro-; streptavidin-antibody fusion proteins for
   diagnosis and specific cell targeting)
Lymphoma
   (lymphoplasmacytoid; streptavidin-antibody fusion proteins
   for diagnosis and specific cell targeting)
Animal cell
   (mammalian; streptavidin-antibody fusion proteins for
   diagnosis and specific cell targeting)
Carcinoma
   (mammary adenocarcinoma; streptavidin-antibody fusion
   proteins for diagnosis and specific cell targeting)
Carcinoma
   (mammary; streptavidin-antibody fusion proteins for diagnosis
   and specific cell targeting)
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (matrix; streptavidin-antibody fusion proteins for diagnosis
   and specific cell targeting)
Angiogenic factors
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (neo-; antigen; streptavidin-antibody fusion proteins for
   diagnosis and specific cell targeting)
Antigens
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
   (neoangiogenic; streptavidin-antibody fusion proteins for
   diagnosis and specific cell targeting)
Lymphoma
   (nodular; streptavidin-antibody fusion proteins for diagnosis
   and specific cell targeting)
Lymphoma
   (non-Hodgkin's, mantle cell; streptavidin-antibody fusion
   proteins for diagnosis and specific cell targeting)
Lymphoma
   (non-Hodgkin's; streptavidin-antibody fusion proteins for
   diagnosis and specific cell targeting)
Carcinoma
   (ovarian adenocarcinoma; streptavidin-antibody fusion
   proteins for diagnosis and specific cell targeting)
Carcinoma
   (ovarian; streptavidin-antibody fusion proteins for diagnosis
   and specific cell targeting)
Carcinoma
   (pancreatic adenocarcinoma; streptavidin-antibody fusion
   proteins for diagnosis and specific cell targeting)
Carcinoma
   (pancreatic; streptavidin-antibody fusion proteins for
   diagnosis' and specific cell targeting)
Carcinoma
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Page 106

(prostatic adenocarcinoma; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) TT Carcinoma (prostatic; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) IT Carcinoma (pulmonary adenocarcinoma; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) IT Carcinoma (pulmonary; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) Carcinoma IT (rectal adenocarcinoma; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) Carcinoma TT (rectal; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) Intestine, neoplasm IT (rectum, adenocarcinoma; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) Intestine, neoplasm TT (rectum, carcinoma; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) Genetic element TT RL: BSU (Biological study, unclassified); BIOL (Biological study) (regulatory; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) IT Genetic element RL: BSU (Biological study, unclassified); BIOL (Biological study) (signal sequence; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) IT Lymphoma (small lymphocytic; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) ITLymphoma (splenic marginal zone; streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) TT Antibiotic resistance Antitumor agents Carcinoma DNA sequences Drug delivery systems Drug delivery systems Eubacteria Genetic vectors Hodgkin's disease Human Immunotherapy Linking agents Melanoma Molecular cloning Multiple myeloma Mus Neuroglia, neoplasm Plant cell Protein sequences Rodentia Streptomyces avidinii (streptavidin-antibody fusion proteins for diagnosis and specific cell targeting) IT Antibodies and Immunoglobulins

Fusion proteins (chimeric proteins)

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RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
    DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (streptavidin-antibody fusion proteins for diagnosis and
        specific cell targeting)
IT
     Peptides, biological studies
     Promoter (genetic element)
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (streptavidin-antibody fusion proteins for diagnosis and
        specific cell targeting)
TT
     CD20 (antigen)
     CD22 (antigen)
     CD45 (antigen)
     Carcinoembryonic antigen
     Epidermal growth factor receptors
     Interleukin 2 receptors
    Mucins
       Tenascins
     neu (receptor)
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (streptavidin-antibody fusion proteins for diagnosis and
        specific cell targeting)
IT
     Proteins
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (stromal; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
IT
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (surface; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
IT
     Radiotherapy
        (targeted; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
TT
     Neoplasm
        (targeting; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
TΤ
     Antigens
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (tumor-associated; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
     Carcinoma
IT
        (uterine endometrial adenocarcinoma; streptavidin-antibody
        fusion proteins for diagnosis and specific cell targeting)
     530171-22-3P
                    530171-23-4P
                                   530171-24-5P
                                                   530171-25-6P
                                                                  530171-26-7P
IT
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (amino acid sequence; streptavidin-antibody fusion proteins
        for diagnosis and specific cell targeting)
IT
     9013-20-1P, Streptavidin
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (chimeric; streptavidin-antibody fusion proteins for
        diagnosis and specific cell targeting)
TT
     2543-43-3
                 122024-47-9
                               149298-31-7
                                              149322-31-6
                                                            313058-85-4
     313058-86-5
                   313058-87-6
     RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
```

```
(Biological study)
        (linker; streptavidin-antibody fusion proteins for diagnosis
        and specific cell targeting)
IT
     530171-06-3P
                    530171-07-4P
                                   530171-08-5P
                                                   530171-09-6P
                                                                  530171-10-9P
     530171-11-0P
                    530171-12-1P
                                   530171-13-2P
                                                   530171-14-3P
                                                                  530171-15-4P
     530171-16-5P
                    530171-17-6P
                                   530171-18-7P
                                                   530171-19-8P
                                                                  530171-20-1P
     530171-21-2P
     RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
     DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (nucleotide sequence; streptavidin-antibody fusion proteins
        for diagnosis and specific cell targeting)
                       9002-61-3, Human chorionic gonadotropin
IT
     58-85-5, Biotin
                                                                  19600-01-2,
           51110-01-1, Somatostatin
                                      65988-71-8, GD2
     RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (streptavidin-antibody fusion proteins for diagnosis and
        specific cell targeting)
IT
     530171-91-6
                   530171-92-7
                                 530171-93-8
                                                530171-94-9
                                                              530171-95-0
     530171-96-1
                   530171-97-2
                                 530171-98-3
                                                530171-99-4
                                                              530172-00-0
     530172-01-1
                   530172-02-2
                                 530172-03-3
                                                530172-04-4
                                                              530172-05-5
     530172-06-6
                   530172-07-7
                                 530172-08-8
                                                530172-09-9
                                                              530172-10-2
                   530172-12-4
                                 530172-13-5
                                                530172-14-6
                                                              530172-15-7
     530172-11-3
                   530172-17-9
                                 530172-18-0
                                                530172-19-1
                                                              530172-20-4
     530172-16-8
                   530172-22-6
     530172-21-5
                                 530172-23-7
                                               530172-24-8
                                                              530172-25-9
                   530172-27-1
                                 530172-28-2
                                               530172-29-3
                                                              530172-30-6
     530172-26-0
    530172-31-7
    RL: PRP (Properties)
        (unclaimed nucleotide sequence; streptavidin-antibody fusion
        proteins for diagnosis and specific cell targeting)
```

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on STN

ACCESSION NUMBER: 2004464623 EMBASE

TITLE: Targeted therapy for malignant gliomas.

AUTHOR: Morokoff A.P.; Novak U.

CORPORATE SOURCE: Dr. A.P. Morokoff, Department of Surgery, Royal Melbourne

Hospital, University of Melbourne, Melbourne, Vic.,

 ${\tt Australia.\ a_morokoff@hotmail.com}$

SOURCE: Journal of Clinical Neuroscience, (2004) 11/8 (807-818).

Refs: 176

ISSN: 0967-5868 CODEN: JCNUE6

PUBLISHER IDENT.: S 0967-5868(04)00063-3

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 016 Cancer

030 Pharmacology

037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ABSTRACT:

The identification of markers that are associated with tumour but not normal tissue has allowed the development of highly-specific targeted therapies. Monoclonal antibodies, either alone or linked to radioisotopes or toxins, have provided a powerful tool for research, as well as the basis for promising therapeutic agents with less side effects than standard radiotherapy or chemotherapy. A new class of drugs, the tyrosine kinase inhibitors, which interfere with the function of key molecules in cancer-promoting pathways, have

had a dramatic effect in haematological malignancy and are being trialled in solid tumours, including glioma. Although the problem of achieving specific, high-level delivery of these various agents to tumours in the brain remains a major issue, encouraging early results with some targeted agents support the attractive theoretical principles of this new paradigm. Further work to identify new molecular targets and to develop agents exploiting them, is needed, as well as confirmation of their safety and efficacy by clinical trials. .COPYRGT. 2004 Elsevier Ltd. All rights reserved.

CONTROLLED TERM:

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Medical Descriptors:
*drug targeting
*glioma: DT, drug therapy
disease marker
  cancer radiotherapy
cancer chemotherapy
  nonhodgkin lymphoma: DT, drug therapy
chronic lymphatic leukemia: DT, drug therapy
breast cancer: DT, drug therapy
receptor down regulation
opsonization
dimerization
cell cycle
protein degradation
DNA damage
liver toxicity: SI, side effect
gastrointestinal toxicity: SI, side effect
skin toxicity: SI, side effect
tumor lysis syndrome: SI, side effect
heart arrhythmia: SI, side effect
lung toxicity: SI, side effect
cardiotoxicity: SI, side effect
drug delivery system
drug eruption: SI, side effect
nausea: SI, side effect
chemotherapy induced emesis: SI, side effect
diarrhea: SI, side effect
drug tolerability
drug efficacy
drug safety
human
clinical trial
review
priority journal
Drug Descriptors:
  monoclonal antibody: AE, adverse drug reaction
  monoclonal antibody: CT, clinical trial
  monoclonal antibody: DT, drug therapy
  rituximab: AE, adverse drug reaction
  rituximab: CT, clinical trial
  rituximab: DT, drug therapy
  trastuzumab: AE, adverse drug reaction
  trastuzumab: CT, clinical trial
  trastuzumab: DT, drug therapy
taxane derivative: AE, adverse drug reaction
taxane derivative: CT, clinical trial
taxane derivative: DT, drug therapy
imatinib: AE, adverse drug reaction
imatinib: CT, clinical trial
imatinib: DT, drug therapy
gefitinib: AE, adverse drug reaction
gefitinib: CT, clinical trial
gefitinib: CB, drug combination
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gefitinib: DT, drug therapy
erlotinib: AE, adverse drug reaction
erlotinib: CT, clinical trial erlotinib: CB, drug combination
erlotinib: DT, drug therapy
semaxanib: AE, adverse drug reaction
semaxanib: CT, clinical trial
semaxanib: DT, drug therapy
vatalanib: AE, adverse drug reaction
vatalanib: CT, clinical trial
vatalanib: DT, drug therapy
rapamycin: AE, adverse drug reaction
rapamycin: CT, clinical trial
rapamycin: DT, drug therapy
rapamycin 2,2 bis(hydroxymethyl)propionate: AE, adverse
drug reaction
rapamycin 2,2 bis(hydroxymethyl)propionate: CT, clinical
trial
rapamycin 2,2 bis(hydroxymethyl)propionate: DT, drug
therapy
cilengitide: AE, adverse drug reaction
cilengitide: CT, clinical trial
cilengitide: DT, drug therapy
thalidomide: AE, adverse drug reaction
thalidomide: CT, clinical trial
thalidomide: DT, drug therapy
tipifarnib: AE, adverse drug reaction
tipifarnib: CT, clinical trial
tipifarnib: DT, drug therapy
isis 3521: AE, adverse drug reaction
isis 3521: CT, clinical trial
isis 3521: DT, drug therapy
lonafarnib: AE, adverse drug reaction
lonafarnib: CT, clinical trial
lonafarnib: DT, drug therapy
atrasentan: AE, adverse drug reaction
atrasentan: CT, clinical trial
atrasentan: DT, drug therapy
celecoxib: AE, adverse drug reaction
celecoxib: CT, clinical trial
celecoxib: DT, drug therapy
temozolomide: AE, adverse drug reaction
temozolomide: CT, clinical trial
temozolomide: DT, drug therapy
lomustine: AE, adverse drug reaction
lomustine: CT, clinical trial
lomustine: DT, drug therapy
irinotecan: AE, adverse drug reaction
irinotecan: CT, clinical trial
irinotecan: CB, drug combination
irinotecan: DT, drug therapy
  cetuximab: AE, adverse drug reaction
  cetuximab: CT, clinical trial
  cetuximab: DT, drug therapy
  tenascin: AE, adverse drug reaction
  tenascin: CT, clinical trial
  tenascin: DT, drug therapy
protein tyrosine kinase inhibitor: AE, adverse drug
reaction
protein tyrosine kinase inhibitor: CT, clinical trial
protein tyrosine kinase inhibitor: DT, drug therapy
protein tyrosine kinase inhibitor: PO, oral drug
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administration
                     leflunomide: AE, adverse drug reaction
                     leflunomide: CT, clinical trial
                     leflunomide: DT, drug therapy
                     leflunomide: PO, oral drug administration
                    2,4 dimethyl 5 (2 oxo 1h indol 3 ylmethylene) 3
                    pyrrolepropionic acid: AE, adverse drug reaction
                    2,4 dimethyl 5 (2 oxo 1h indol 3 ylmethylene) 3
                    pyrrolepropionic acid: CT, clinical trial
                    2,4 dimethyl 5 (2 oxo 1h indol 3 ylmethylene) 3
                    pyrrolepropionic acid: DT, drug therapy
                    protein farmesyltransferase inhibitor: AE, adverse drug
                    reaction
                    protein farnesyltransferase inhibitor: CT, clinical trial
                    protein farmesyltransferase inhibitor: DT, drug therapy
                    marimastat: AE, adverse drug reaction
                    marimastat: CT, clinical trial
                    marimastat: DT, drug therapy
                    rapamycin derivative: AE, adverse drug reaction
                    rapamycin derivative: CT, clinical trial
                    rapamycin derivative: DT, drug therapy
                    unindexed drug
                    emd 555900
CAS REGISTRY NO.:
                     (rituximab) 174722-31-7; (trastuzumab) 180288-69-1;
                     (imatinib) 152459-95-5, 220127-57-1; (gefitinib)
                    184475-35-2, 184475-55-6, 184475-56-7; (erlotinib)
                    183319-69-9, 183321-74-6; (semaxanib) 186610-95-7;
                     (vatalanib) 212141-54-3, 212142-18-2; (rapamycin)
                    53123-88-9; (rapamycin 2,2 bis(hydroxymethyl)propionate)
                    162635-04-3, 343261-52-9; (cilengitide) 188968-51-6;
                     (thalidomide) 50-35-1; (tipifarnib) 192185-72-1; (isis
                    3521) 151879-73-1; (lonafarnib) 193275-84-2; (atrasentan)
                    173864-34-1, 173937-91-2, 195733-43-8; (celecoxib)
                    169590-42-5; (temozolomide) 85622-93-1; (lomustine)
                    13010-47-4; (irinotecan) 100286-90-6; (cetuximab)
                    205923-56-4; (leflunomide) 75706-12-6; (2,4 dimethyl 5 (2
                    oxo 1h indol 3 ylmethylene) 3 pyrrolepropionic acid)
                    252916-29-3; (marimastat) 154039-60-8
                    (1) Rituxan; (2) Herceptin; (3) Emd 555900; (4) Erbitux; (5) Gleevec; (6) Iressa; (7) Tarceva; (8) Su 5416; (9)
                    Affinitak; (10) Emd 121974; (11) Cci 779; (12) Abt 627; Su
                     (1) Idec (United States); (4) Imclone (United States); (5)
                    Novartis (United States); (6) Astra Zeneca (United
                    Kingdom); (7) Genentech (United States); (8) Pfizer (United
                    States); (9) Isis (United States); (10) Merck (Germany);
                     (11) Wyeth (United States); (12) Abbott (United States);
                    British Biotechnology (United Kingdom)
L96 ANSWER 15 OF 21 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
ACCESSION NUMBER:
                    2001382514 EMBASE
                    Monoclonal antibody therapy in the treatment of non-hodgkin
                    lymphoma.
                    McCune S.L.; Gockerman J.P.; Rizzieri D.A.
CORPORATE SOURCE:
                    Dr. D.A. Rizzieri, Division of Oncology, Duke University
                    Medical Center, Box 3961 North Pavilion, 2400 Pratt St,
                    Durham, NC 27710, United States. rizzi003@mc.duke.edu
                    Journal of the American Medical Association, (12 Sep 2001)
                    286/10 (1149-1152).
                    Refs: 31
                    ISSN: 0098-7484 CODEN: JAMAAP
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CHEMICAL NAME:

COMPANY NAME:

on STN

TITLE:

AUTHOR:

SOURCE:

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United States
COUNTRY:
DOCUMENT TYPE:
                    Journal; (Short Survey)
FILE SEGMENT:
                     006
                             Internal Medicine
                     016
                             Cancer
                     025
                             Hematology
                     037
                             Drug Literature Index
                     038
                             Adverse Reactions Titles
LANGUAGE:
                    English
CONTROLLED TERM:
                    Medical Descriptors:
                       *nonhodgkin lymphoma: DT, drug therapy
                       *cancer immunotherapy
                     leukemia: DT, drug therapy
                     ischemic heart disease: PC, prevention
                    kidney graft rejection: CO, complication kidney graft rejection: DT, drug therapy
                    kidney graft rejection: PC, prevention
                    rheumatoid arthritis: DT, drug therapy
                    Crohn disease: DT, drug therapy
                    respiratory tract disease: PC, prevention
                    breast cancer: DT, drug therapy
                     treatment indication
                    antigen antibody reaction
                    drug mechanism
                    cancer combination chemotherapy
                    drug induced disease: SI, side effect
                     fever: DT, drug therapy
                     fever: SI, side effect
                    hypotension: DT, drug therapy
                    hypotension: SI, side effect
                    respiratory distress: DT, drug therapy
                     respiratory distress: SI, side effect
                    human
                    clinical trial
                    phase 3 clinical trial
                    human cell
                    short survey
                    priority journal
                    Drug Descriptors:
                       *monoclonal antibody: AE, adverse drug reaction
                       *monoclonal antibody: CT, clinical trial
                       *monoclonal antibody: CB, drug combination
                       *monoclonal antibody: DO, drug dose
                       *monoclonal antibody: DT, drug therapy
                       *monoclonal antibody: PD, pharmacology
                       *rituximab: CT, clinical trial
                       *rituximab: CB, drug combination
                       *rituximab: DO, drug dose
                       *rituximab: DT, drug therapy
                       *rituximab: PD, pharmacology
                     *alemtuzumab: DT, drug therapy
                     *alemtuzumab: PD, pharmacology
                       *immunotoxin: CB, drug combination
                       *yttrium 90: CB, drug combination
                     *ibritumomab tiuxetan: CB, drug combination
                     *ibritumomab tiuxetan: DT, drug therapy
                       *tositumomab: CB, drug combination
                       *tositumomab: DT, drug therapy
                       *iodine 131: CB, drug combination
                       human monoclonal antibody: AE, adverse drug
                    reaction
                       human monoclonal antibody: CT, clinical trial
```

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human monoclonal antibody: CB, drug combination
                      human monoclonal antibody: DO, drug dose
                      human monoclonal antibody: DT, drug therapy
                      human monoclonal antibody: PD, pharmacology
                      abciximab: PD, pharmacology
                      interleukin 2 receptor antibody: DT, drug therapy
                      interleukin 2 receptor antibody: PD, pharmacology
                      gemtuzumab ozogamicin: DT, drug therapy
                      gemtuzumab ozogamicin: PD, pharmacology
                      OKT 3: DT, drug therapy
                      OKT 3: PD, pharmacology
                      palivizumab: PD, pharmacology
                      infliximab: DT, drug therapy
                      infliximab: PD, pharmacology
                      trastuzumab: DT, drug therapy
                      trastuzumab: PD, pharmacology
                    antineoplastic agent: CT, clinical trial
                    antineoplastic agent: CB, drug combination
                    antineoplastic agent: DT, drug therapy
                    fludarabine: CT, clinical trial fludarabine: CB, drug combination
                    fludarabine: DT, drug therapy
                    cyclophosphamide: CB, drug combination
                    cyclophosphamide: DT, drug therapy
                    doxorubicin: CB, drug combination
                    doxorubicin: DT, drug therapy
                    vincristine: CB, drug combination
                    vincristine: DT, drug therapy
                    prednisone: CB, drug combination
                    prednisone: DT, drug therapy
                      tenascin
                    tumor necrosis factor alpha
                    CD52 antigen
                    alpha interferon: CB, drug combination
                    alpha interferon: DT, drug therapy
                    antipyretic agent: DT, drug therapy
                    steroid: DT, drug therapy
                    antihistaminic agent: DT, drug therapy
                    unclassified drug
                    (rituximab) 174722-31-7; (yttrium 90) 10098-91-6;
                     (tositumomab) 208921-02-2; (iodine 131) 10043-66-0,
                    15124-39-7; (abciximab) 143653-53-6; (interleukin 2
                    receptor antibody) 179045-86-4; (OKT 3) 140608-64-6;
                     (palivizumab) 188039-54-5; (infliximab) 170277-31-3;
                     (trastuzumab) 180288-69-1; (fludarabine) 21679-14-1;
                     (cyclophosphamide) 50-18-0; (doxorubicin) 23214-92-8,
                    25316-40-9; (vincristine) 57-22-7; (prednisone) 53-03-2
L96 ANSWER 16 OF 21 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
                    96106033 EMBASE
                    1996106033
                    Radioimmunotherapy: Recent results and future directions.
                    Wilder R.B.; DeNardo G.L.; DeNardo S.J.
                    Molecular Cancer Institute, 1508 Alhambra Blvd, Sacramento,
                    CA 95816, United States
                    Journal of Clinical Oncology, (1996) 14/4 (1383-1400).
                    ISSN: 0732-183X CODEN: JCONDN
                    United States
                    Journal; General Review
                    016
                            Cancer
                            Nuclear Medicine
                    023
```

CAS REGISTRY NO.:

on STN ACCESSION NUMBER:

DOCUMENT NUMBER:

CORPORATE SOURCE:

TITLE:

AUTHOR:

SOURCE:

COUNTRY:

DOCUMENT TYPE:

FILE SEGMENT:

025 Hematology

037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ABSTRACT:

Purpose: To review antibody structure, function, and production; suitable radioisotopes for radioimmunotherapy; challenges facing the field; recent clinical results; toxicity; and future directions. Design: The radioimmunotherapy literature was reviewed, with an emphasis on clinical results and future directions. Results: The highest complete response rates (overall, 50%) have been achieved in patients with B-cell non-Hodgkin's lymphoma. Challenges that currently face radioimmunotherapy include circulating free antigen, binding of antibodies to nonspecific Fc receptors, insufficient tumor penetration, antigenic heterogeneity and insufficient antigen expression, antigenic modulation, and development of human antimouse antibodies. Possible approaches to these challenges, including high-dose radioimmunotherapy and chemotherapy followed by autologous bone marrow transplantation, the use of radionuclides such as yttrium 90 (90Y) and copper 67 (67Cu), and the development of humanized and bifunctional antibodies, are under investigation. Conclusion: Although radioimmunotherapy is a relative new field, substantial progress has been made. Additional research will ultimately resolve many of the challenges that currently face radioimmunotherapy and hopefully lead to the cure of some currently incurable malignancies.

CONTROLLED TERM: Medical Descriptors:

*b cell lymphoma: RT, radiotherapy

*nonhodgkin lymphoma: RT, radiotherapy

*solid tumor: RT, radiotherapy allergic reaction: SI, side effect autologous bone marrow transplantation bone marrow suppression: SI, side effect

cardiotoxicity: SI, side effect

clinical trial

diarrhea: SI, side effect

drug half life

dyspnea: SI, side effect fever: SI, side effect

human

intraarterial drug administration intraperitoneal drug administration intratumoral drug administration intravenous drug administration liver toxicity: SI, side effect lung toxicity: SI, side effect

major clinical study nausea: SI, side effect phase 1 clinical trial phase 2 clinical trial

priority journal

pruritus: SI, side effect

radioimmunotherapy
radioisotope decay

radioisotope therapy

review

urticaria: SI, side effect

Drug Descriptors:

*antibody conjugate: AE, adverse drug reaction *antibody conjugate: AD, drug administration

*antibody conjugate: TO, drug toxicity

*copper 67: PK, pharmacokinetics

*immunoglobulin g antibody: AD, drug administration

```
*immunoglobulin g antibody: AE, adverse drug
                    reaction
                      *lymphocyte antibody: CT, clinical trial
                      *lymphocyte antibody: AD, drug administration
                    *tumor antigen
                      *yttrium 90: PK, pharmacokinetics
                    Fc receptor
                    alpha interferon
                      astatine 211: PK, pharmacokinetics
                      carcinoembryonic antigen monoclonal antibody
                      chimeric antibody
                    cytotoxin
                      ferritin antibody: AD, drug administration
                      ferritin antibody: CT, clinical trial
                    gamma interferon
                      ganglioside antibody
                    immunoglobulin gl
                    interleukin 2
                      interleukin 2 receptor antibody: AD, drug
                    administration
                      interleukin 2 receptor antibody: CT, clinical trial
                    lutetium
                   lymphocyte antigen
                     monoclonal antibody b.72.3
                    nerve cell adhesion molecule
                      radioisotope
                      receptor antibody
                      rhenium 188: PK, pharmacokinetics
                      tenascin
                    tirapazamine
                    unindexed drug
                    (copper 67) 15757-86-5; (yttrium 90) 10098-91-6; (astatine
CAS REGISTRY NO.:
                    211) 15755-39-2; (bismuth) 7440-69-9; (gamma interferon)
                    82115-62-6; (interleukin 2) 85898-30-2; (lutetium)
                    7439-94-3; (tirapazamine) 27314-97-2
                    Sr 4233
     ANSWER 17 OF 21 DRUGU COPYRIGHT 2005 THE THOMSON CORP on STN
ACCESSION NUMBER: 2004-40353 DRUGU
                                      T S
                  Phase 1 trial study of 131I-labeled chimeric 81C6
                  monoclonal antibody for the treatment of patients with non-
                  Hodgkin lymphoma.
                  Rizzieri D A; Akabani G; Zalutsky M R; Coleman R E; Metzler S
                  D; Bowsher J E; Toaso B; Anderson E; Lagoo A; Clayton S
CORPORATE SOURCE: Univ. Duke
                  Durham, N.C., USA
                  Blood (104, No. 3, 642-48, 2004) 4 Fig. 3 Tab. 40 Ref.
                  CODEN: BLOOAW
                                      ISSN: 0006-4971
                  Box 3961, Duke University Medical Center, Durham NC 27710,
                  U.S.A. (17 authors). (e-mail: rizzi003@mc.duke.edu).
                  English
                  Journal
```

ABSTRACT:

LANGUAGE: DOCUMENT TYPE:

CHEMICAL NAME:

TITLE:

AUTHOR:

LOCATION:

AVAIL. OF DOC.:

SOURCE:

131I-chimeric 81C6 mAb (131I-ch81C6 mAb) infusion resulted in hematologic toxicities and mostly stable disease as the best response in a phase I study of 9 patients with non-Hodgkin lymphoma (NHL) who had failed at least 1 prior regimen (e.g., rituximab) and ineligible for other standard curative approaches. 131I-ch81C6 mAb showed a monoexponential clearance of whole-body activity. 131I-ch81C6 mAb showed biexponential

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pharmacokinetics in the blood. The patients had chronic lymphocytic leukemia, small lymphocytic lymphoma, mucosa-associated lymphoid tissue
lymphoma , or diffuse large cell lymphoma. 1 Patient achieved
PR and another achieved unconfirmed CR. These findings suggest that 131I-ch81C6
mAb is potentially useful for the treatment of lymphoma if methods to
protect normal viscera are developed.

SECTION <u>HEADING</u>: T Thorapeutics

S Adverse Effects

CLASSIF. CODE: 35 Adverse Reactions

51 Chemotherapy - clinical

64 Clinical Trials

75 Monoclonal Antibodies

CONTROLLED TERM:

[01] NONHODGKIN *TR; LYMPHOMA *TR; CHRON. *TR;

LYMPHOCYTIC *TR; LEUKEMIA *TR; SMALL *TR; LYMPHOID *TR;
LARGE-CELL *TR; MARROW-DEPRESSION *AE; LYMPHOPROLIFERATIVEDISEASE *TR; MARROW-DISEASE *AE; MONOCLONAL *FT; ANTIBODY
*FT; IMMUNOGLOBULIN *FT; GLOBULIN *FT; IODINE-LABELED *FT;
IN-VIVO *FT; CASES *FT; CYTOSTATIC *FT; PHASE-I *FT; INFUSION
*FT; BLOOD *FT; CLEARANCE *FT; HALF-LIFE *FT; PARTIAL *FT;
COMPLETE *FT; RESPONSE *FT; PROTEIN *FT; CLIN.TRIAL *FT;
INJECTION *FT; PHARMACOKINETICS *FT; TR *FT; AE *FT

FILE SEGMENT: AB; LA; CT Literature

L96 ANSWER 18 OF 21 DRUGU COPYRIGHT 2005 THE THOMSON CORP on STN

ACCESSION NUMBER: 2004-42319 DRUGU T S

TITLE: Phase I trial with pharmacokinetics, dosimetry, toxicity and

response of anti-stromal therapy using 131I labeled chimeric

anti-tenascin therapy for lymphoma.

AUTHOR: Rizzieri D A; Akabani G; Zalutsky M; Coleman R E; Toaso B;

Anderson E; Lagoo A; Clayton S; Niedzwiecki D; Moore J O

CORPORATE SOURCE: Univ.Duke; Univ.Emory

LOCATION: Durham, N.C.; Atlanta, Ga., USA

SOURCE: Blood (102, No. 11, Pt. 1, 635a-636a, 2003) 1 Fig. 1 Tab. 1

Ref.

CODEN: BLOOAW ISSN: 0006-4971

AVAIL. OF DOC.: Dept. of Medicine, Duke University Medical Center, Durham,

NC, U.S.A. (15 authors).

LANGUAGE: English DOCUMENT TYPE: Journal

ABSTRACT:

I.v. infusion of 131I-labeled chimeric human-mouse antibody to

tenascin was well tolerated with favorable pharmacokinetics (PK) among

9 lymphoma patients. Tenascin is a stromal protein which

is overexpressed in lymphomatous tissue compared to normal visceral sites. (conference abstract: 45th Annual Meeting of the American Society of

Hematology, San Diego, California, USA, December 6-9, 2003).

SECTION HEADING: T Therapeutics

S Adverse Effects

CLASSIF. CODE: 8 Pharmacokinetics

35 Adverse Reactions

51 Chemotherapy - clinical

64 Clinical Trials

75 Monoclonal Antibodies

CONTROLLED TERM:

[01] LYMPHOMA *TR; NEUTROPENIA *AE; THROMBOCYTOPENIA

*AE; RADIOLESION *AE; LYMPHOPROLIFERATIVE-DISEASE *TR; MARROW-DISEASE *AE; CASES *FT; IN-VIVO *FT; PHASE-I *FT; DOSAGE *FT; I.V. *FT; INFUSION *FT; IODINE-LABELED *FT;

CHIMERIC *FT; MONOCLONAL *FT; ANTIBODY *FT;

RADIOIMMUNOTHERAPY *FT; HALF-LIFE *FT; CLIN.TRIAL

*FT; INJECTION *FT; RADIOTHERAPY *FT; PHARMACOKINETICS *FT;

TR *FT; AE *FT

FIELD AVAIL: AB; LA; CT FILE SEGMENT: Literature

L96 ANSWER 19 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

DUPLICATE 10

ACCESSION NUMBER: 2003-19995 BIOTECHDS

TITLE:

New multivalent, monospecific binding protein comprising two or more binding sites having affinity for the same single target antigen, where each binding site is associated with scFv fragments, useful for diagnosing or treating tumor; recombinant vector-mediated gene transfer and expression

in host cell for use in diagnosis and gene therapy

AUTHOR: ROSSI E; CHANG C K; GOLDENBERG D M

PATENT ASSIGNEE: ROSSI E

PATENT INFO: WO 2003033654 24 Apr 2003 APPLICATION INFO: WO 2002-US32718 15 Oct 2002

PRIORITY INFO: US 2002-404919 22 Aug 2002; US 2001-328835 15 Oct 2001

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: WPI: 2003-513460 [48]
ABSTRACT: DERWENT ABSTRACT:

NOVELTY - A multivalent, monospecific binding protein comprising two or more binding sites having affinity for the same single target antigen, where the binding sites are formed by the association of two or more single chain Fv (scFV) fragments, and each scFV fragment comprises at least two variable domains derived from a humanized or human monoclonal antibody, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following: (1) an expression vector comprising a nucleotide sequence encoding the monospecific diabody, triabody or tetrabody; (2) a host cell comprising the expression vector; (3) diagnosing the presence of a tumor by administering to a subject suspected of having a tumor a detectable amount of the binding protein, and monitoring the subject to detect any binding of the binding protein to tumor; (4) delivering one or more diagnostic and/or therapeutic agents to a tumor by administering the binding protein to the subject; and (5) a kit for therapeutic and/or diagnostic use, comprising the binding protein, and additional reagents, equipments and instructions for use.

BIOTECHNOLOGY - Preferred Protein: The binding protein comprises a monoclonal antibody that is specific for a tumor-associated antigen. The tumor-associated antigen is associated with a disease state selected from a carcinoma, a melanoma, a sarcoma, a neuroblastoma, a leukemia, a glioma, a lymphoma and a myeloma. The tumor-associated antigen is associated with a type of cancer selected from acute lymphoblastic leukemia, acute myelogenous leukemia, biliary, breast, cervical, chronic lymphocytic leukemia, chronic myelogenous leukemia, colorectal, endometrial, esophageal, gastric, head and neck, Hodgkin's

lymphoma, lung, medullary thyroid, non-Hodgkin's lymphoma, ovarian, pancreatic, prostate and urinary bladder. The tumor-associated antigen is selected from A3, A33, BrE3, CD1, CD1a, CD3, CD5, CD15, CD19, CD20, CD21, CD22, CD23, CD30, CD45, CD74, CD79a, CEA, CSAp, EGFR, EGP-1, EGP-2, Ep-CAM, Ba 733, HER2/neu, KC4, KS-1, KS1-4, Le-Y, MAGE, MUC1, MUC2, MUC3, MUC4, PAM-4, PSA, PSMA, RS5, S100, T101, TAG-72, tenascin, Tn antigen, Thomson-Friedenreich antigens, tumor necrosis antigens, vascular endothelial growth factor (VEGF), 17-1A, an angiogenesis marker, a cytokine, an immunomodulator, an oncogene marker and an oncogene product. The tumor-associated antigen is carcinoembryonic antigen (CEA). The humanized monoclonal antibody is hMN-14. The binding protein further comprises at least one agent selected from a diagnostic agent, a therapeutic agent and their combinations. The diagnostic agent is selected from a conjugate, a radionuclide, a metal, a contrast agent, a tracking agent, a detection agent, and their combinations. The radionuclide is selected from 11C, 13N, 15O, 18F, 32P, 52Mn, 55Co, 62Cu, 64Cu, 67Ga, 68Ga, 72As, 76Br, 82mRb, 83Sr, 89Zr, 90Y, 94mTc, 94Tc, 99mTc, 110In, 111In, 120I, 123I, 124I, 125I, 131I, Gd, 177Lu, 186Re, 188Re, a gamma-emitter, a beta-emitter, a positron emitter, or their combinations. The metal is selected from gadolinium, iron, chromium, copper, cobalt, nickel, dysprosium, rhenium, europium, terbium, holmium, neodymium, and their combinations. The contrast agent is a MRI contrast agent, a CT contrast agent, or an ultrasound contrast agent. The contrast agent is selected from gadolinium ions, lanthanum ions, manganese ions, iron, chromium, copper, cobalt, nickel, dysprosium, rhenium, europium, terbium, holmium, neodymium, another comparable contrast agent, and their combinations. The tracking agent is selected from iodine compounds, barium compounds, gallium compounds, thallium compounds, barium, diatrizoate, ethiodized oil, gallium citrate, iocarmic acid, iocetamic acid, iodamide, iodipamide, iodoxamic acid, iogulamide, iohexol, iopamidol, iopanoic acid, ioprocemic acid, iosefamic acid, ioseric acid, iosulamide meglumine, iosemetic acid, iotasul, iotetric acid, iothalamic acid, iotroxic acid, ioxaglic acid, ioxotrizoic acid, ipodate, meglumine, metrizamide, metrizoate, propyliodone, thallous chloride, and their combinations. The detection agent is selected from an enzyme, a fluorescent compound, a chemiluminescent compound, a bioluminescent compound, a radioisotope, and their combinations. The therapeutic agent is selected from a radionuclide, a chemotherapeutic drug, a cytokine, a hormone, a growth factor, a toxin, an immunomodulator, and their combination. The chemotherapeutic drug is selected from vinca alkaloids, anthracyclines, epidophyllotoxins, taxanes, antimetabolites, alkylating agents, antibiotics, Cox-2 inhibitors, antimitotics, antiangiogenic agents, apoptotoic agents, doxorubicin, methotrexate, taxol, CPT-11, camptothecans, nitrogen mustards, alkyl sulfonates, nitrosoureas, triazenes, folk acid analogs, pyrimidine analogs, purine analogs, platinum coordination complexes, hormones, and their combinations. The toxin is selected from ricin, abrin, ribonuclease, DNase I, Staphylococcal enterotoxin A, pokeweed antiviral protein, gelonin, diphtherin toxin, Pseudomonas exotoxin or endotoxin, and their combinations. The immunomodulator is selected from cytokines, stem cell growth factors, lymphotoxins,

hematopoietic factors, colony stimulating factors, interferons, stem cell growth factors, erythropoietin, thrombopoietin, and their combinations. The humanized monoclonal antibody is hMN-14. Each scFv comprises the VH and VK regions of hMN-14. Each scFv further comprises an amino acid linker connecting the VH and VK regions of hMN-14. This is a monospecific diabody, where each scFv comprises a sequence of 261 amino acids; a monospecific triabody, where each scFv comprises a sequence of 256 amino acids; or a monospecific tetrabody, where each comprises a sequence of 257 amino acids. Preferred Method:

ACTIVITY - Cytostatic. No biological data given. MECHANISM OF ACTION - Gene therapy.

USE - The binding proteins are useful for diagnosing and treating tumors, e.g. carcinoma, a melanoma, a sarcoma, a neuroblastoma, a leukemia, a glioma, a lymphoma and a myeloma; or a cancer selected from acute lymphoblastic leukemia, acute myelogenous leukemia, biliary, breast, cervical, chronic lymphocytic leukemia, chronic myelogenous leukemia, colorectal, endometrial, esophageal, gastric, head and neck, Hodgkin's lymphoma, lung, medullary thyroid, non-Hodgkin's lymphoma

, ovarian, pancreatic, prostate and urinary bladder. When treating a tumor by administering to the subject the binding protein, and/or a therapeutic agent , the therapeutic agent is a chemotherapeutic drug, a toxin, external radiation, brachytherapy radiation agent, a radiolabeled protein, an anticancer drug, or an anticancer antibody (all claimed).

ADMINISTRATION - Administration is intravenous, intraarterial, intraperitoneal, intramuscular, subcutaneous, intrapleural, or intrathecal. No dosage is given.

EXAMPLE - No relevant example given. (62 pages)

CLASSIFICATION:

THERAPEUTICS, Gene Therapy; GENETIC TECHNIQUES and APPLICATIONS, Gene Expression Techniques and Analysis; DISEASE, Cancer; DISEASE, Blood and Hematopoietic Cells; PHARMACEUTICALS, Antibodies; DIAGNOSTICS, Molecular Diagnostics

CONTROLLED TERMS: RECOMBINANT VECTOR-MEDIATED GENE TRANSFER, EXPRESSION IN HOST CELL, HUMAN MONOCLONAL ANTIBODY, APPL. CANCER, CARCINOMA, MELANOMA, SARCOMA, NEUROBLASTOMA, LEUKEMIA, GLIOMA, LYMPHOMA, MYELOMA DIAGNOSIS, GENE THERAPY ANIMAL MAMMAL TUMOR DNA SEQUENCE PROTEIN SEQUENCE (22, 33)

L96 ANSWER 20 OF 21 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN ACCESSION NUMBER:

2004-642245 [62] WPIDS

CROSS REFERENCE:

1998-230235 [20]; 1999-204989 [17]; 2002-195738 [25]

DOC. NO. NON-CPI:

N2004-507914

DOC. NO. CPI:

C2004-230849

TITLE:

Preparing and purifying radioiodine conjugate useful in

radioimmunotherapy, involves contacting

radioiodinated aminopolycarboxylate-appended peptide that

is/ or not conjugated to targeting agent with

anion-exchange resin. B04 D16 K08 P34 S05

DERWENT CLASS: INVENTOR(S):

GOVINDAN, S V

PATENT ASSIGNEE(S):

(IMMU-N) IMMUNOMEDICS INC 108

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

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APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004071571	A1	WO 2004-US3305	20040204

PRIORITY APPLN. INFO: US 2003-359276 20030206

INT. PATENT CLASSIF.:

MAIN: A61N000-00

BASIC ABSTRACT:

WO2004071571 A UPAB: 20041125

NOVELTY - Preparing and purifying (M1) conjugate (I) of radioiodinated aminopolycarboxylate-appended peptide (RAP) and targeting agent, involves (a) providing a solution comprising unbound radioiodine and RAP that is/or not conjugated to a targeting agent, (b) contacting solution with anion-exchange resin, and (c) passing resin and solution together through filter capable of trapping anion-exchange resin particles, where purified (I) is obtained.

ACTIVITY - Cytostatic; Cardiant; Immunosuppressive; Hemostatic; Dermatological; Neuroprotective; Muscular-Gen.; Antiinflammatory; Antirheumatic; Antidiabetic; Hemostatic; Anabolic; Hypertensive; Antiarthritic; Antiulcer; Gastrointestinal-Gen.; Nephrotropic; Hepatotropic; Thyromimetic; Antiallergic; Vasotropic; Antianemic; Nootropic; Antibacterial; Antifungal; Antiviral; Antipyretic; Antirheumatic. No supporting data is given.

MECHANISM OF ACTION - Immunotherapy.

USE - (M1) is useful for preparing and purifying conjugate of radioiodinated aminopolycarboxylate-appended peptide (RAP) and targeting agent. The targeting agent is a monoclonal antibody (MAb) associated with a malignant disease, cardiovascular disease, autoimmune disease (class III autoimmune disease), Alzheimer's disease, or infectious organism. The autoimmune disease is chosen from immune-mediated thrombocytopenias, dermatomyositis, Sjogren's syndrome, multiple sclerosis, Sydenham's chorea, myasthenia gravis, systemic lupus erythematosus, lupus nephritis, rheumatic fever, polyglandular syndromes, bullous pemphigoid, diabetes mellitus, Henoch-Schonlein purpura, post-streptococcal nephritis, erythema nodosum, Takayasu's arteritis, Addison's disease, rheumatoid arthritis, sarcoidosis, ulcerative colitis, erythema multiforme, IgA nephropathy, polyarteritis nodosa, ankylosing spondylitis, Goodpasture's syndrome, thromboangitis ubiterans, primary biliary cirrhosis, Hashimoto's thyroiditis, thyrotoxicosis, scleroderma, chronic active hepatitis, polymyositis/dermatomyositis, polychondritis, pemphigus vulgaris, Wegener's granulomatosis, membranous nephropathy, amyotrophic lateral sclerosis, tabes dorsalis, giant cell arteritis/polymyalgia, pernicious anemia, rapidly progressive glomerulonephritis and fibrosing alveolitis. The immune-mediated thrombocytopenia is acute idiopathic thrombocytopenic purpura or chronic idiopathic thrombocytopenic purpura. The monoclonal antibody is capable of targeting cardiovascular lesions, amyloid deposits, infectious organisms, inflammation, autoimmune diseases, displace or ectopic normal tissues, and liquid cancer or solid cancer. The monoclonal antibody is capable of targeting clots, emboli, atherosclerotic plaques, amyloidosis, bacteria, fungi, rickettsia, viruses, parasites, rheumatoid

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arthritis, systemic lupus erythematosis, multiple sclerosis, displaced or ectopic parathyroid tissue, displaced or ectopic endometrium tissue, displaced or ectopic spleen tissue, displaced or ectopic thymus tissue, leukemias, lymphomas, carcinomas, sarcomas, gliomas, or melanomas (claimed). (I) is useful in radioimmunodetection and radioimmunotherapy.

ADVANTAGE - (M1) enables purification of (I) having enhanced stability in vivo and enhanced retention at tumor sites. (M1) removes both unincorporated radioiodide and unconjugated radioiodinated moiety. (M1) provides greater efficiency of antibody labeling with residualizing iodine labels. (M1) provides higher quality stable radioiodine conjugate preparations having a low aggregate content. (M1) is a simple and safe-handled process occurring in one-pot preparation and purification method. (M1) avoids the cumbersome column method of purification. Dwq.0/3

FILE SEGMENT: CPI EPI GMPI

FIELD AVAILABILITY: AB; DCN

MANUAL CODES: CPI: B04-G01; B04-G21; B04-N04A; B11-B; B11-C08D2;

B14-A01; B14-A02; B14-A04; B14-B02; B14-C03; B14-C04; B14-C06; B14-C09; B14-D01; B14-E10C; B14-F01; B14-F02; B14-F03; B14-F04; B14-F07;

B14-G02A; B14-G02D; B14-H01; B14-J01A4; B14-J05; B14-K01; B14-N10; B14-N11; B14-N12; B14-N17;

B14-N17C; B14-S01; B14-S04; D05-C11; D05-H11A;

K08-X; K09-B; K09-E

EPI: S05-A03X

L96 ANSWER 21 OF 21 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN

ACCESSION NUMBER: 2004-313738 [29] WPIDS

CROSS REFERENCE: 2003-801085 [75]
DOC. NO. NON-CPI: N2004-249776
DOC. NO. CPI: C2004-119121

TITLE: Treating cancer and metabolic diseases by administering a

multi-specific antibody having a targeting arm

that binds to an antigen and a capture arm that binds to

a polymer conjugate comprising a therapeutic agent.

DERWENT CLASS: A96 B04 C06 D16 K08 S03

INVENTOR(S): GOLDENBERG, D M; GRIFFITHS, G L; HANSEN, H J

PATENT ASSIGNEE(S): (IMMU-N) IMMUNOMEDICS INC

COUNTRY COUNT: PATENT INFORMATION:

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 2004043030	Al Provisional CIP of	US 2001-308605P US 2002-209592 US 2003-456580	20010731 20020731 20030609

PRIORITY APPLN. INFO: US 2001-308605P 20010731; US

2002-209592 20020731; US

2003-456580 20030609

INT. PATENT CLASSIF.:

MAIN: G01N033-574 SECONDARY: A61K039-395

BASIC ABSTRACT:

US2004043030 A UPAB: 20040505

NOVELTY - Diagnosing or treating a disease or disorder, involves administering to a tissue a multi-specific antibody (I) or antibody fragment, comprising a targeting arm that binds to an antigen on the target site, and a capture arm that binds to a polymer conjugate, and administering to the tissue a polymer conjugate that binds to the capture arm, the polymer conjugate comprising a polymer conjugated to a diagnostic or therapeutic agent.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for photodynamic diagnosis or treatment of a disease or disorder or intravascular or endoscopic method for diagnosing or treating a disease or disorder, involves administering to a tissue a multi-specific antibody or antibody fragment, comprising a targeting arm that binds to an antigen on the target site, and a capture arm that binds to a polymer conjugate, and administering to the tissue a polymer conjugate that binds to the capture arm, the polymer conjugate comprising a polymer conjugated to a diagnostic or therapeutic agent.

ACTIVITY - Cytostatic; Antiinflammatory; Nootropic; Neuroprotective; Antiatherosclerotic; Vasotropic; Thrombolytic; Immunosuppressive; Nephrotropic; Dermatological; Antirheumatic; Antiarthritic; Hemostatic; Analgesic; Antidiabetic; Antiulcer; Hepatotropic; Thyromimetic; Antiallergic; Antibacterial; Fungicide; Virucide; Antiparasitic; Protozoacide; Antianemic.

A subject who has colon cancer that expressed the CEA antigen was given a 100 mg/m2 dose of the bi-specific antibody hMN-14 multiply 374 F(ab')2 multiply Fab'. After 24 hours, the subject was then given an equimolar dose of the indium coupled of the AcLys (diethylenetriaminepentaacetic acid)Glu6(SN-38)6Lys(diethylenetriaminepentaacetic acid-polymer-drug, conjugate. The diethylenetriaminepentaacetic acid-polymer-drug was localized selectively at the tumor due to the pretargeting with the multi-specific antibody, causing a high concentration of the active agent SN-38 to also be localized. Over time, free SN-38 was released from the localized conjugate, exerting a therapeutic effect on the tumors.

MECHANISM OF ACTION - Immunotherapy.

USE - The method is useful for diagnosing or treating a disease or disorder chosen from cancer (esophageal, gastric, colonic, rectal, pancreatic, lung, breast, ovarian, urinary bladder, endometrial, cervical, testicular, renal, adrenal and liver cancer, solid tumor, B-cell malignancy or T-cell malignancy); cardiovascular lesion; an inflammatory disease; neurodegenerative disease; metabolic disease; and an infectious disease. The B-cell malignancy is chosen from indolent forms of B-cell lymphomas, aggressive forms of B-cell lymphomas, chronic lymphatic leukemias, acute lymphatic leukemias, and multiple myeloma. The solid tumor is chosen melanoma, carcinoma (preferably renal carcinoma, lung carcinoma, intestinal carcinoma, and stomach carcinoma), glioma and sarcoma. The cardiovascular lesion is chosen from infarct, clot, embolus, atherosclerotic plaque and ischemia. The neurodegenerative disease is Alzheimer's disease. The metabolic disease is amyloidosis, where the antibody binds amyloid. The disease or disorder is displaced or ectopic normal tissue chosen from endometrium, thymus, spleen and parathyroid. The method can be used for normal tissue ablation, where the tissue is chosen from bone marrow and spleen. The disease or disorder is an autoimmune disease such as myasthenia gravis, lupus nephritis, lupus erythematosus, and rheumatoid arthritis, Class III autoimmune diseases such as immune-mediated thrombocytopenias, such as acute idiopathic thrombocytopenic purpura and chronic idiopathic thrombocytopenic purpura, dermatomyositis, Sjogren's syndrome, multiple sclerosis, Sydenham's chorea, myasthenia gravis, systemic lupus erythematosus, lupus nephritis, rheumatic fever, polyglandular syndromes, bullous pemphigoid, diabetes mellitus, Henoch-Schonlein purpura,

post-streptococcal nephritis, erythema nodosum, Takayasu's arteritis, Addison's disease, rheumatoid arthritis, sarcoidosis, ulcerative colitis, erythema multiforme, IgA nephropathy, polyarteritis nodosa, ankylosing spondylitis, Goodpasture's syndrome, thromboangitis ubiterans, primary biliary cirrhosis, Hashimoto's thyroiditis, thyrotoxicosis, scleroderma, chronic active hepatitis, polymyositis/dermatomyositis, polychondritis, pemphigus vulgaris, Wegener's granulomatosis, membranous nephropathy, amyotrophic lateral sclerosis, tabes dorsalis, giant cell arteritis/polymyalgia, pernicious anemia, rapidly progressive glomerulonephritis, or fibrosing alveolitis. The infectious disease is chosen from bacterial, fungal, parasitic and viral lesion. The infectious disease is caused by a fungus chosen from Microsporum, Trichophyton, Epidermophyton, Sporothrix schenckii, Cyrptococcus neoformans, Coccidioides immitis, Histoplasma capsulatum, Blastomyces dermatitidis, and Candida albicans. The infectious disease is caused by a virus chosen from HIV, herpes virus, cytomegalovirus, rabies virus, influenza virus, hepatitis B virus, Sendai virus, feline leukemia virus, Reo virus, polio virus, human serum parvo-like virus, simian virus 40, respiratory syncytial virus, mouse mammary tumor virus, Varicella-Zoster virus, Dengue virus, rubella virus, measles virus, adenovirus, human T-cell leukemia viruses, Epstein-Barr virus, murine leukemia virus, mumps virus, vesicular stomatitis virus, Sindbis virus, lymphocytic choriomeningitis virus, wart virus and blue tongue virus. The infectious disease is caused by a bacterium chosen from Bacillus anthracis, Streptococcus agalactiae, Legionella pneumophilia, Streptococcus pyogenes, Escherichia coli, Neisseria gonorrhoeae, Neisseria meningitidis, Pneumococcus, Hemophilus influenzae B, Treponema pallidum, Lyme disease spirochetes, Pseudomonas aeruginosa, Mycobacterium leprae, Brucella abortus, Mycobacterium tuberculosis, and Tetanus toxin. The infectious disease is caused by a protozoa chosen from Plasmodium falciparum, Plasmodium vivax, Toxoplasma gondii, Trypanosoma rangeli, Trypanosoma cruzi, Trypanosoma rhodesiensei, Trypanosoma brucei, Schistosoma mansoni, Schistosoma japanicum, Babesia bovis, Elmeria tenella, Onchocerca volvulus, Leishmania tropica, Trichinella spiralis, Onchocerca volvulus, Theileria parva, Taenia hydatigena, Taenia ovis, Taenia saginata, Echinococcus granulosus, and Mesocestoides corti. The infectious disease is caused by a mycoplasma chosen from Mycoplasma arthritidis, M. hyorhinis, M. orale, M. arginini, Acholeplasma laidlawii, M. salivarum and M. pneumoniae. The cancer is preferably chosen from carcinoembryonic antigen (CEA) - expressing tumor or a CD20-expressing malignancy. The CD20-expressing malignancy is a B-cell lymphoma or leukemia (claimed). Dwg.0/0

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FILE SEGMENT:
                      CPI EPI
FIELD AVAILABILITY:
                      AB; DCN
                      CPI: A10-E01; A12-V; A12-V01; A12-V03C2; B04-C03;
MANUAL CODES:
                           B04-G01; B04-H01; B04-L05C; B05-A03A; B05-A03B;
                           B05-A04; B05-B02A3; B05-C07; B06-A02; B06-A03;
                           B06-F03; B07-A02B; B07-D13; B10-B01B; B10-B02A;
                           B10-D03; B11-C07A; B12-K04A; B14-A01; B14-A02;
                           B14-A03; B14-C06; B14-C09B; B14-F02D; B14-F03;
                           B14-F04; B14-F07; B14-H01A; B14-H01B; B14-J01A4;
                           B14-N10; B14-N11; B14-N12; B14-N14; B14-N15;
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                           C05-B02A3; C05-C07; C06-A02; C06-A03; C06-F03;
                           C07-A02B; C07-D13; C10-B01B; C10-B02A; C10-D03;
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                           C14-C06; C14-C09B; C14-F02D; C14-F03; C14-F04;
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                           D05-H11; K08-X; K09-B
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EPI: S03-E09E; S03-E14H4

FILE 'HOME' ENTERED AT 16:22:58 ON 21 MAR 2005

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